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THE CONTRACTOR

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THURSDAY, MAY 12, 1960

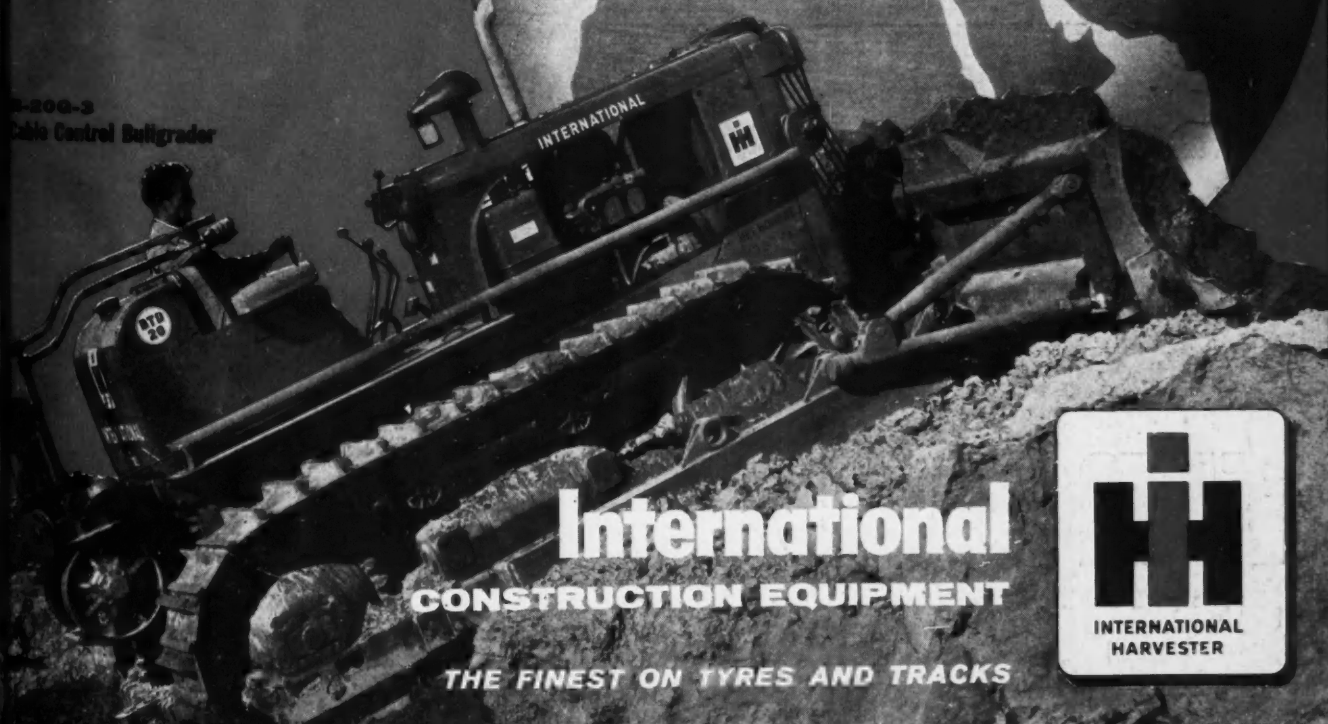
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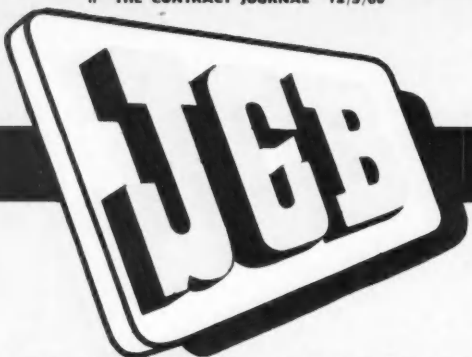


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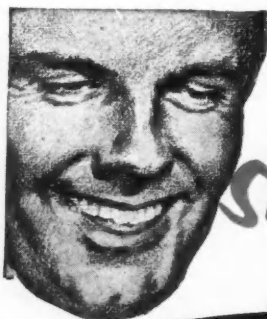
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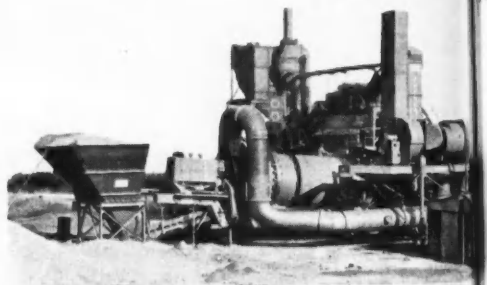
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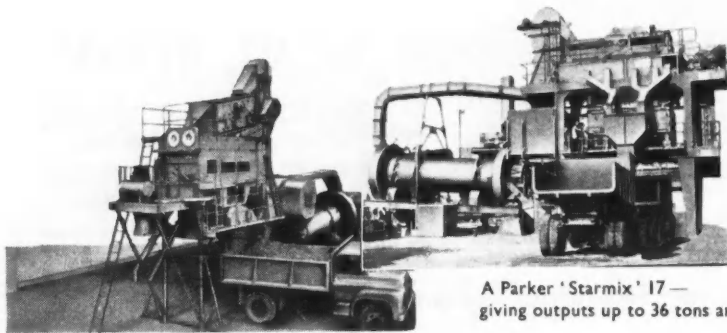
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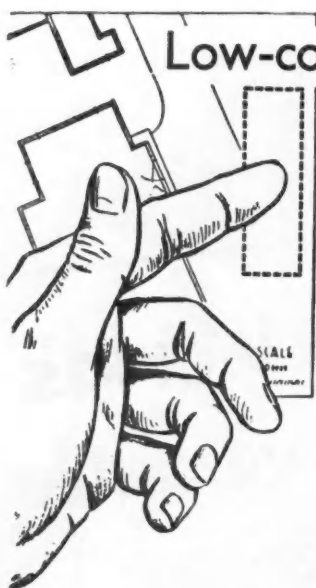
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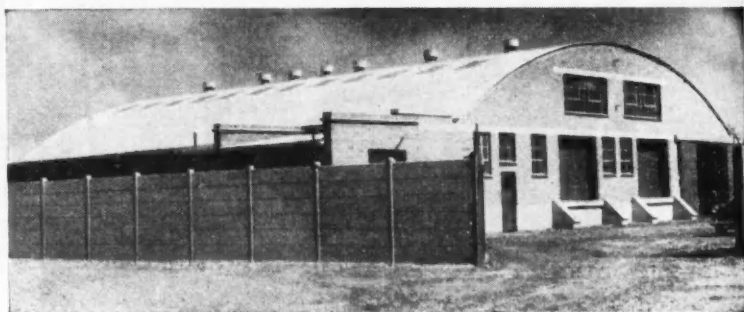
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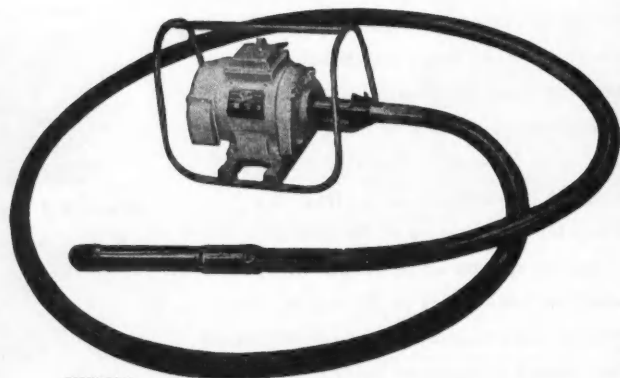
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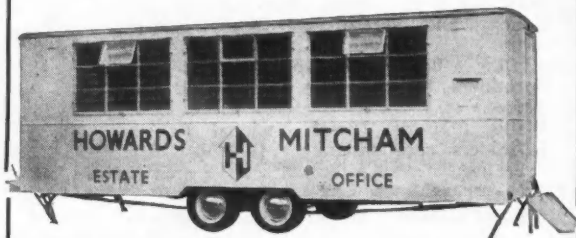
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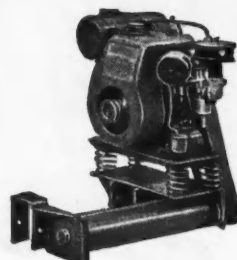
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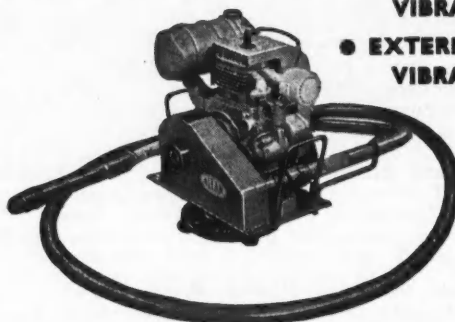
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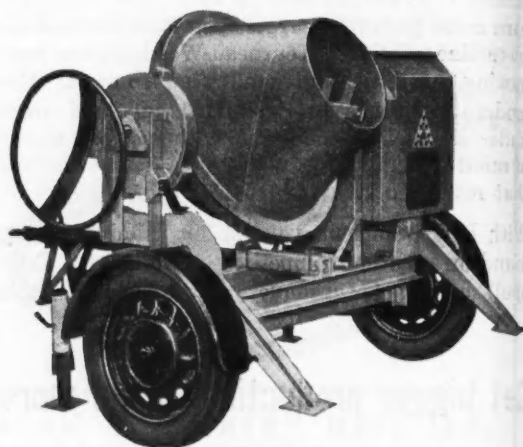
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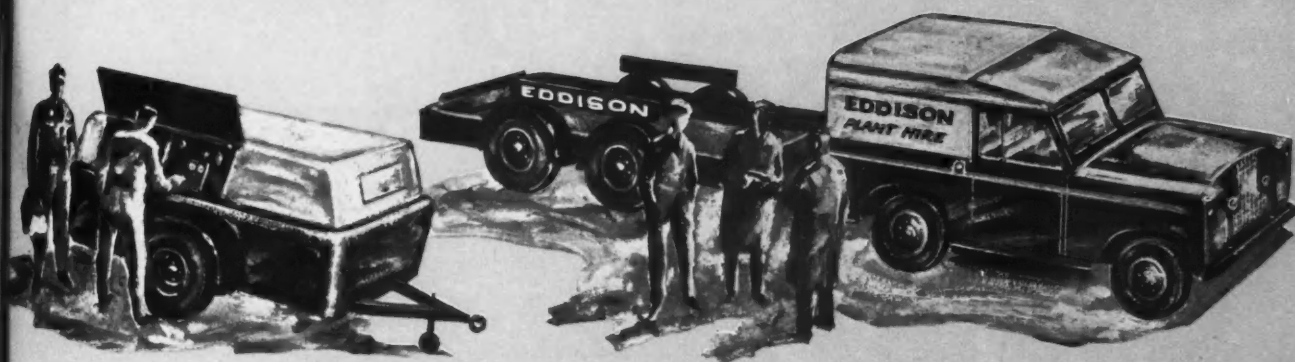


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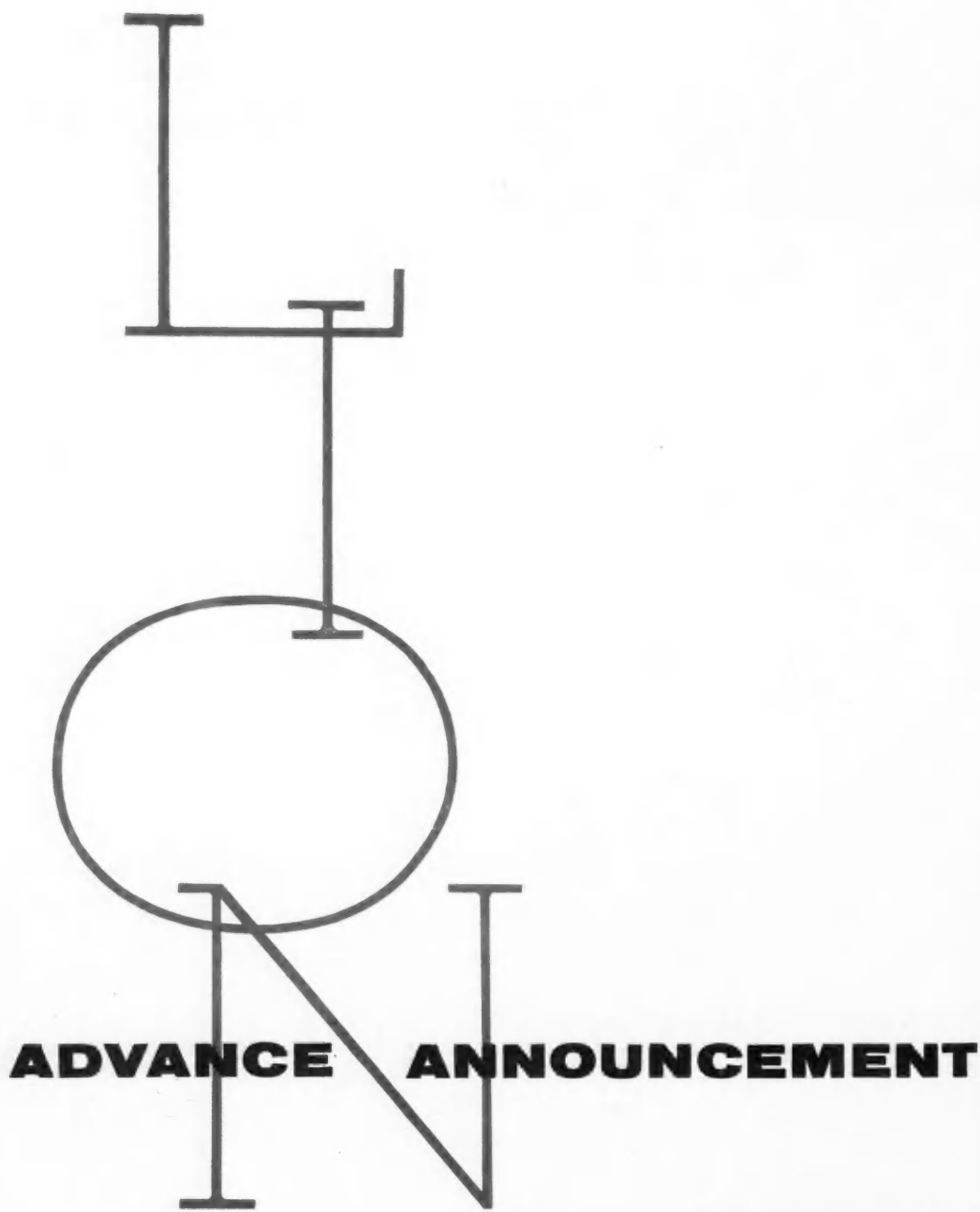
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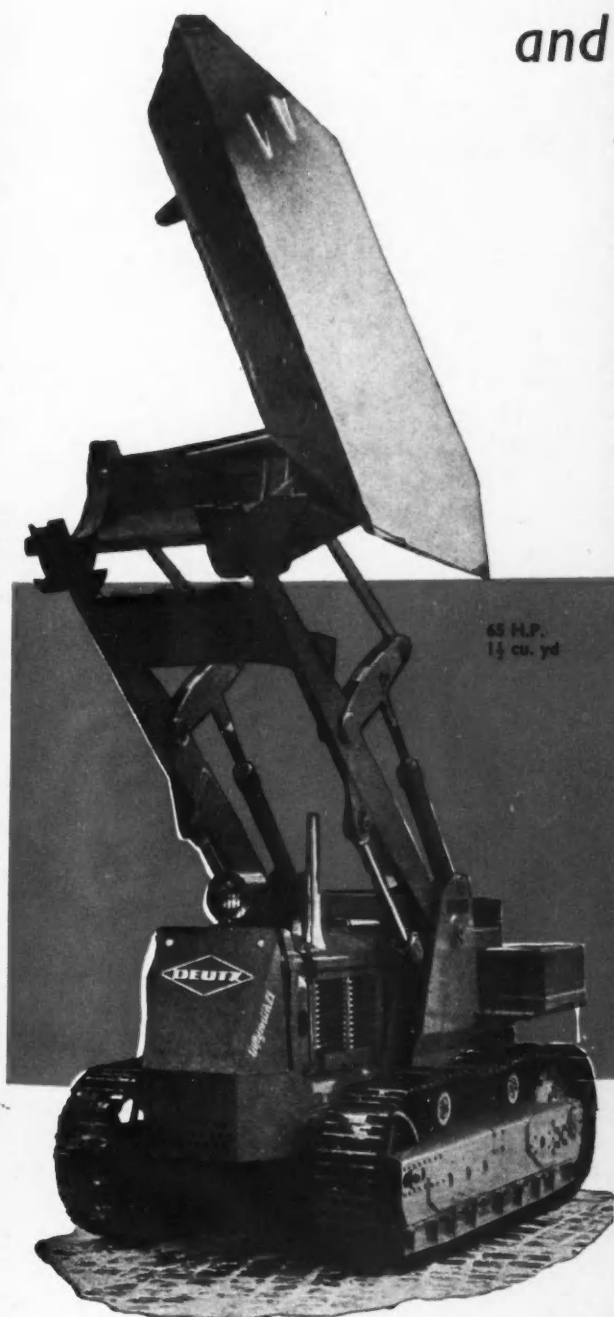
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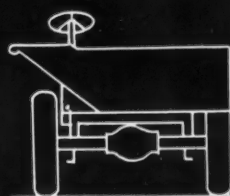
* Associated Company of C.E.T. (Plant) Ltd.

NEW SIDE DISCH

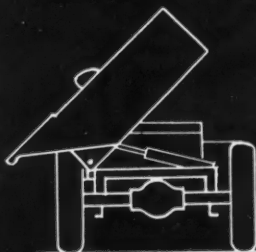
This completely new side discharge-dumper provides hydraulically operated finger tip controlled side discharge of concrete-1'-3" above ground level whilst travelling under load

SPECIFICATION

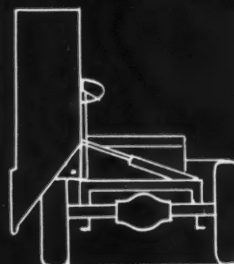
- Chassis.** 6" x 3" and 4" x 2" Channel, electrically welded giving ample strength and rigidity.
- Skip.** 3/16" thick sheet steel, electrically welded and braced where required. Capacity: 27 cu. ft. water level. Speed of lift: 7 seconds. Loading height: 4 ft. Maximum payload: 30 cwts.
- Turning Radius.** 9 ft. 6 ins.
- Engine.** Petter AVA2. 11.5 h.p. @ 1650 r.p.m. working off half speed shaft. Chain drive to clutch, slow running "Renold" $\frac{3}{4}$ " pitch.
- Gearbox.** Constant mesh, 3 forward, 1 reverse, gears hardened nickel chrome steel with a ground finish to ensure smoothness in running.
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- Speeds:** 1st gear: 4 m.p.h.
2nd gear: 7½ m.p.h.
top gear: 12½ m.p.h.
reverse: 4 m.p.h.
- Pump.** 4½ g.p.m. @ 1,500 r.p.m. Chain drive.
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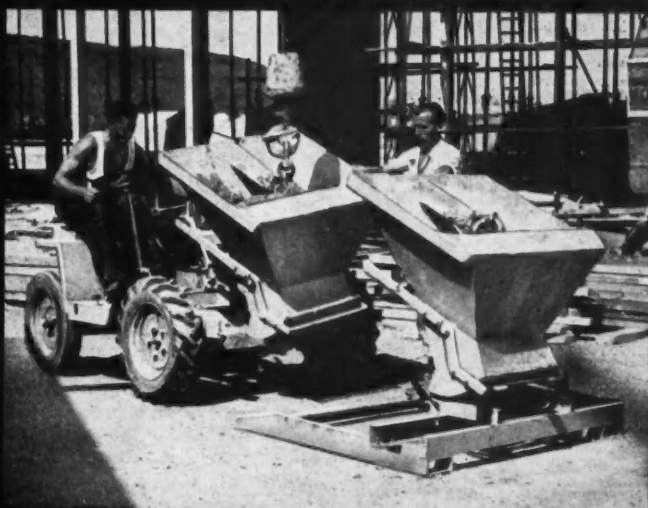
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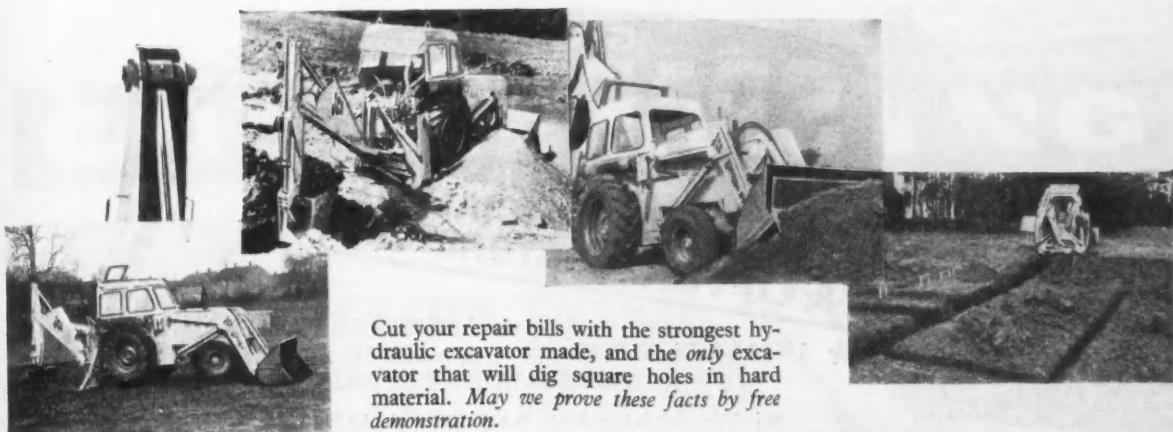
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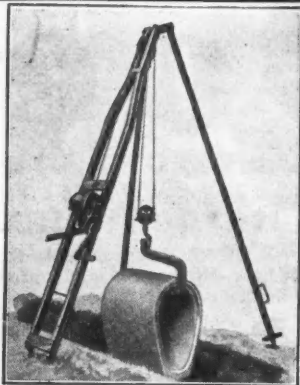
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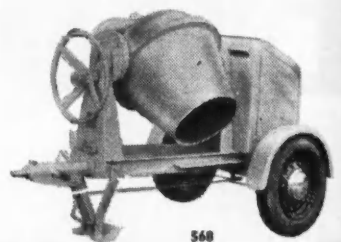
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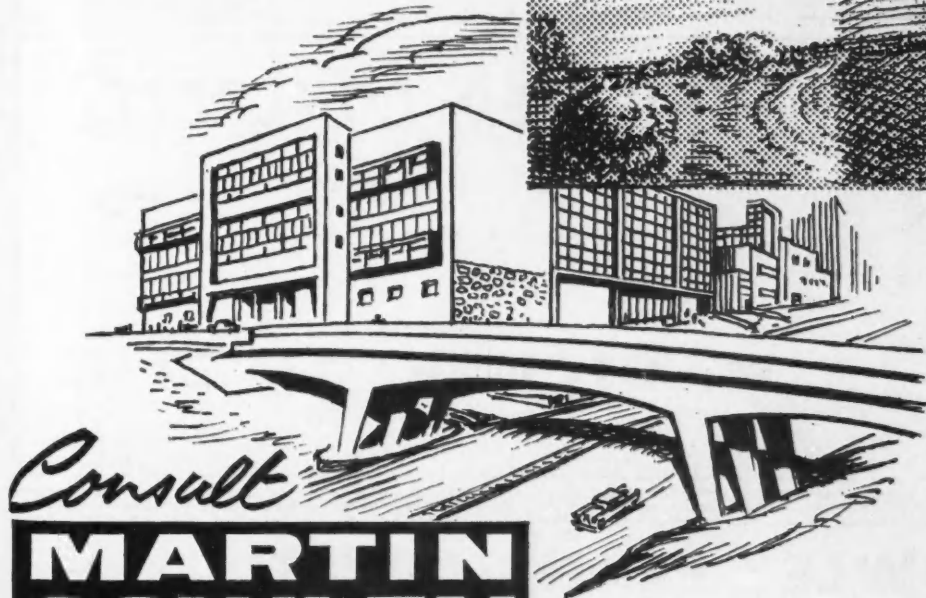
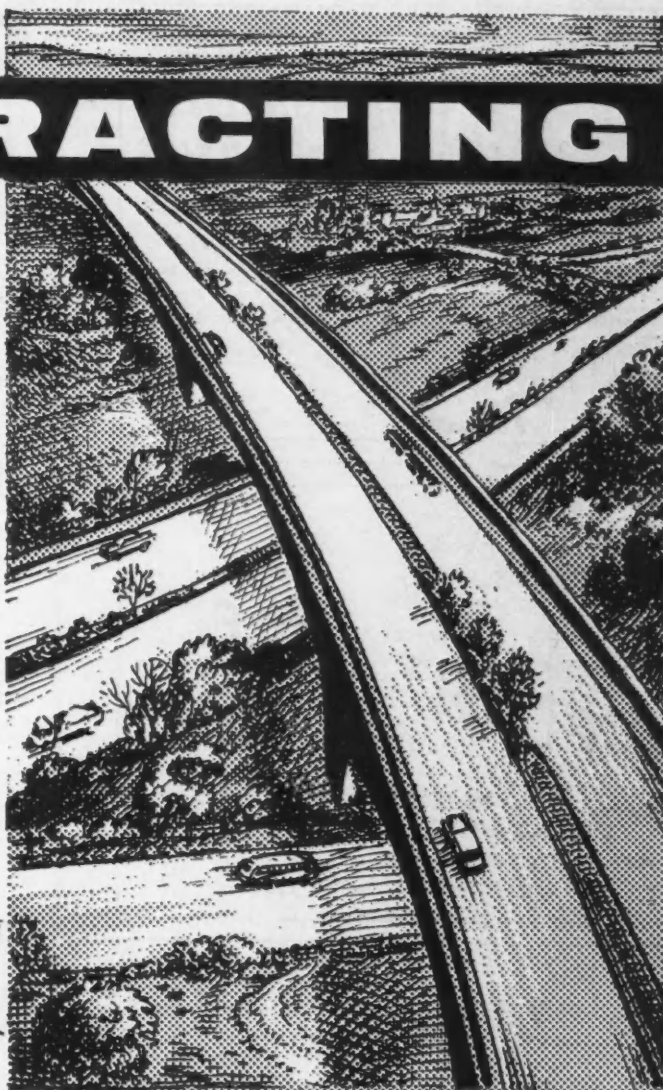
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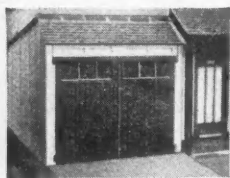


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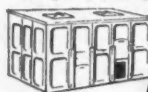
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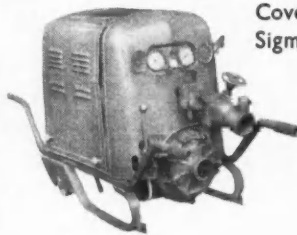
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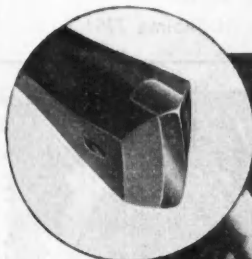
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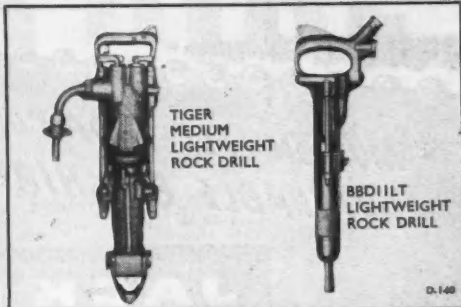
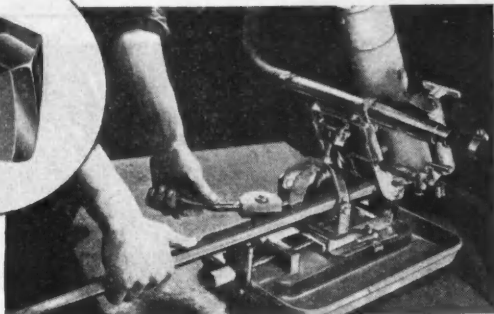
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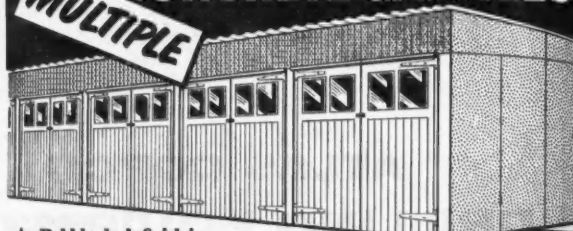
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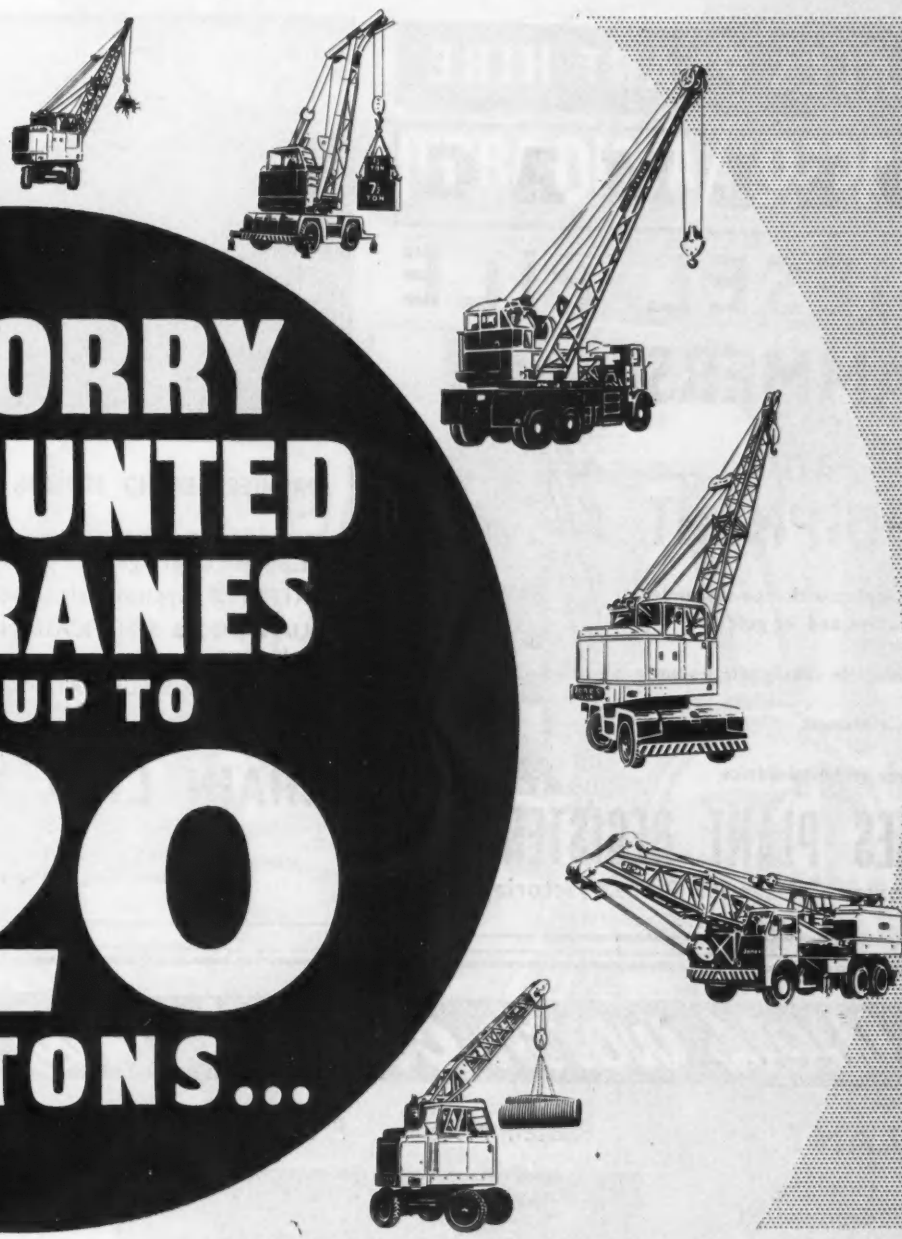
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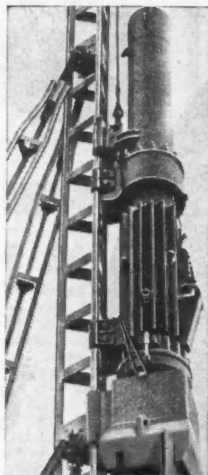
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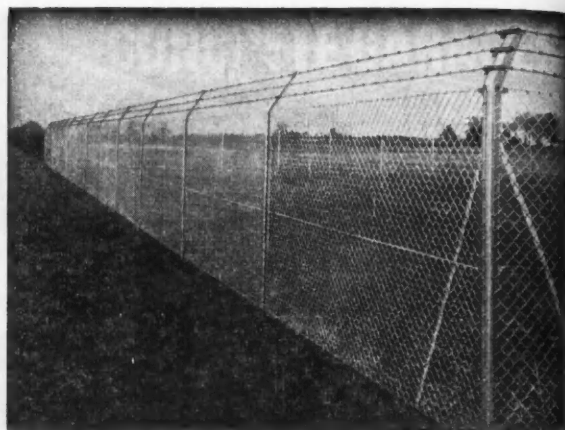
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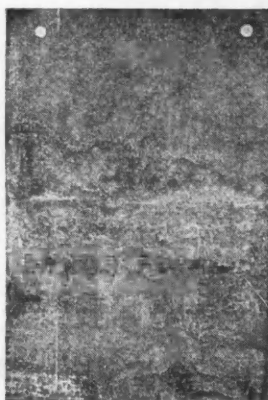
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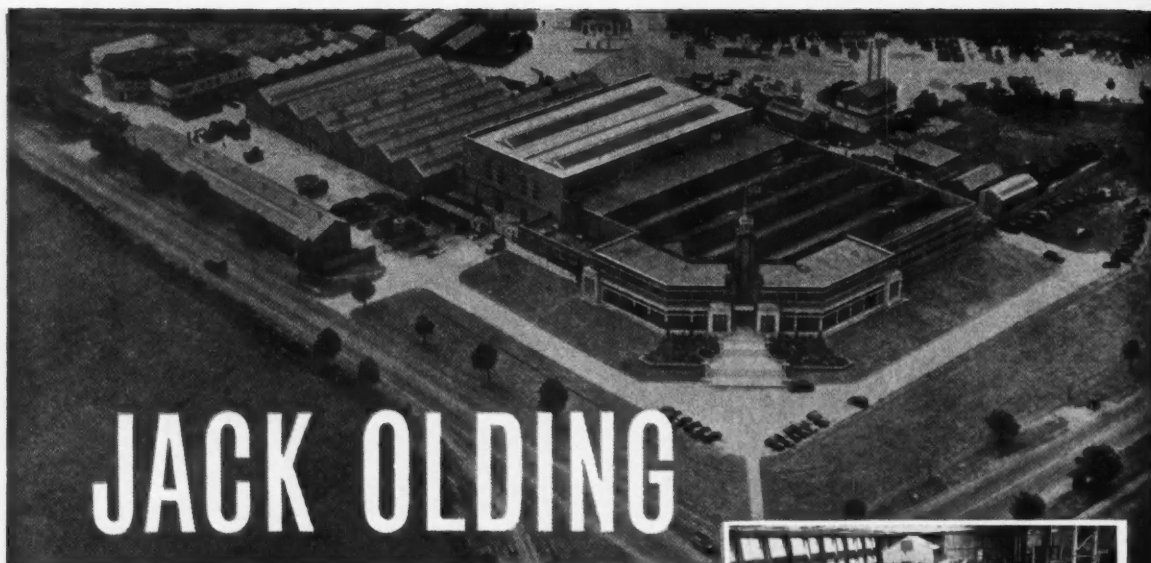
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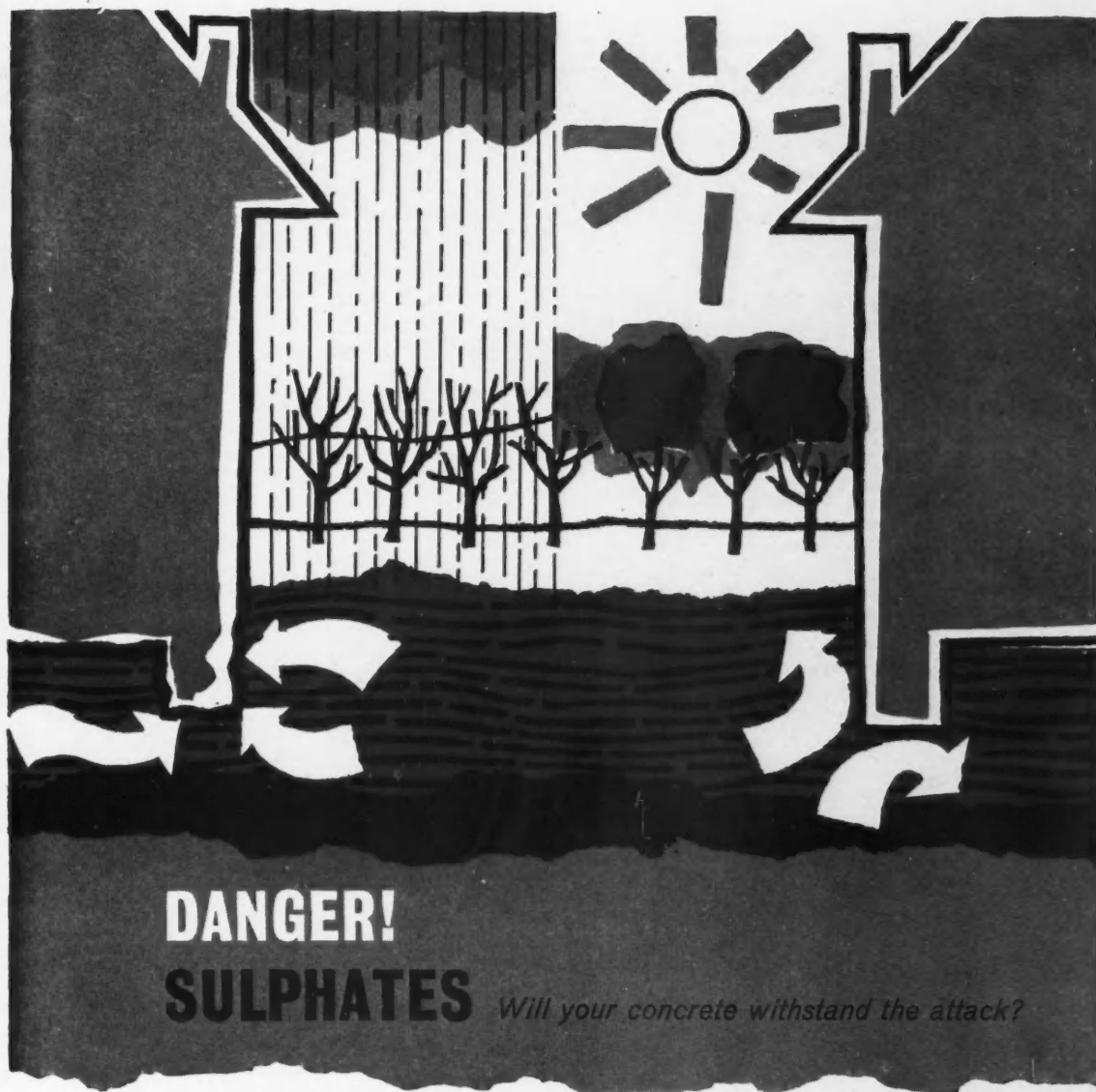
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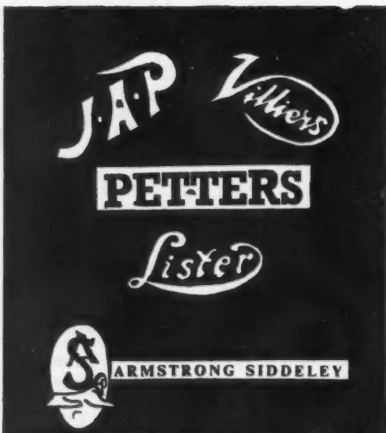
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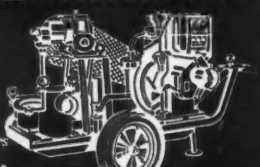
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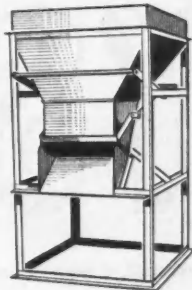
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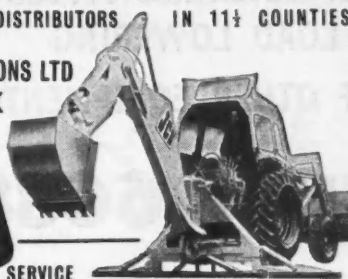
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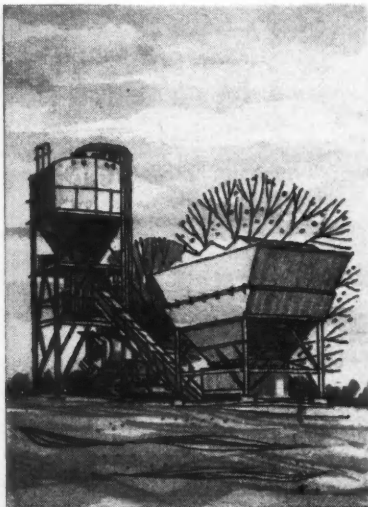
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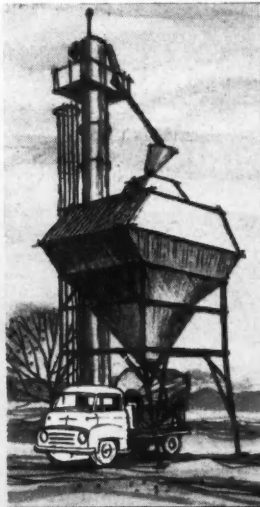
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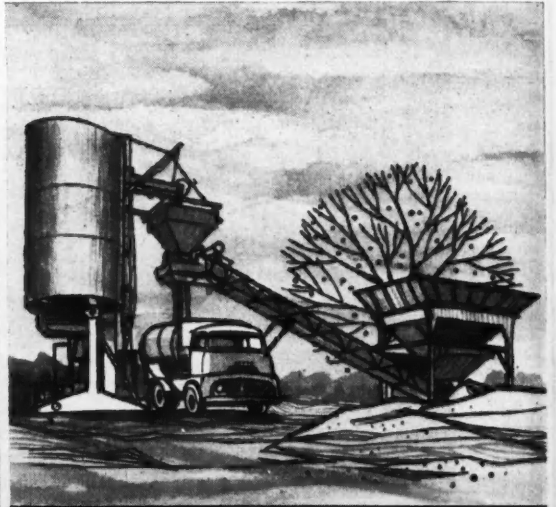
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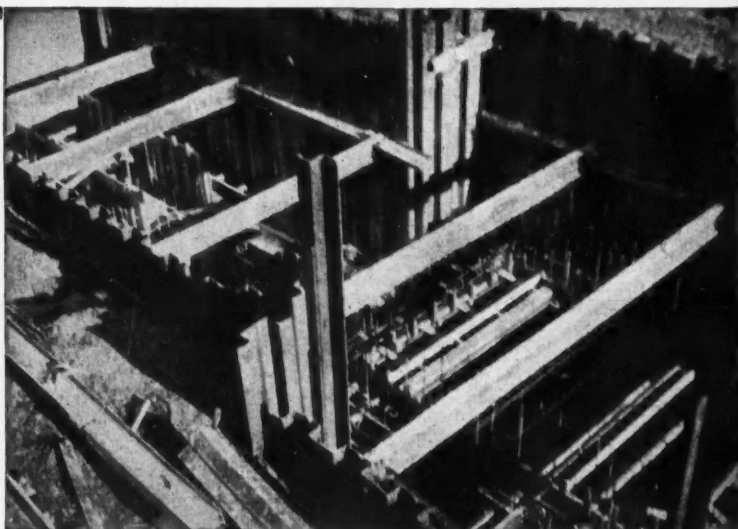
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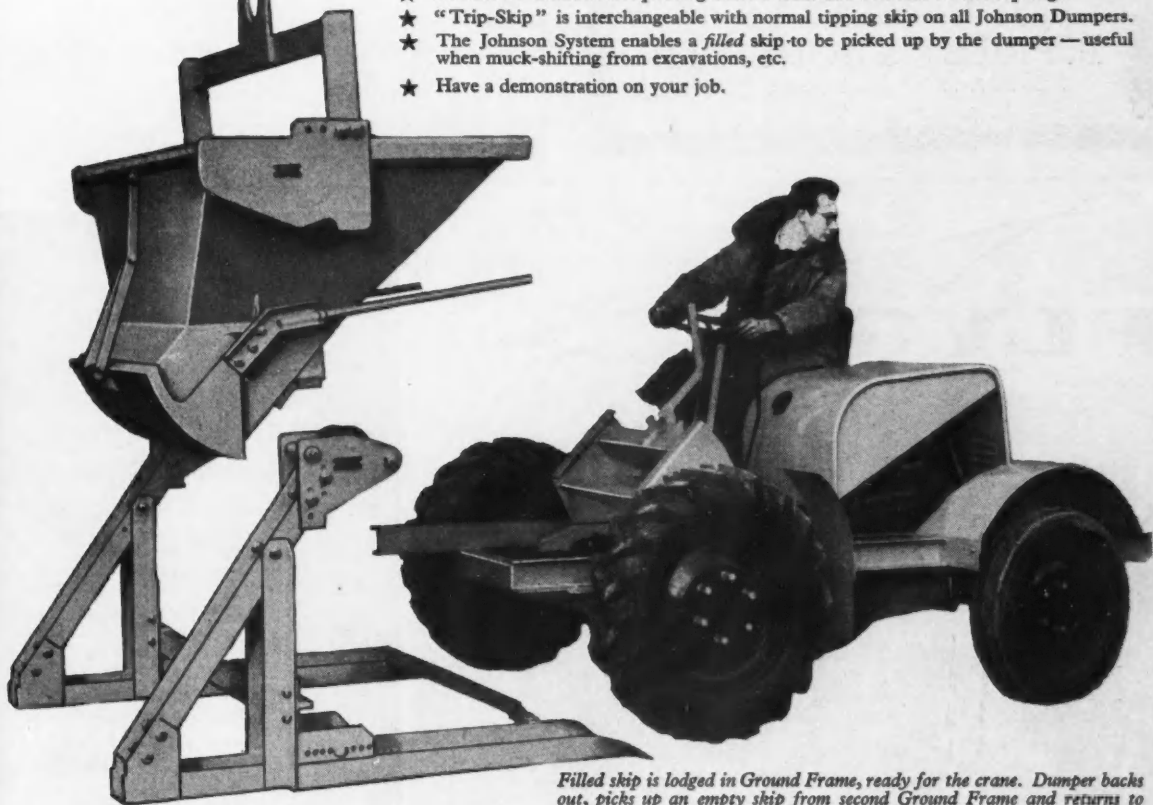
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MULTI-SKIP HANDLING WITH STANDARD JOHNSON DUMPERS

The "Trip-Skip" gives maximum flexibility to site organisation. A simple sequence can be established whereby the dumper and crane work as a team — neither waiting for the other.

Both full or empty skips can be collected or deposited by the dumper.

- ★ When the mixer is sited outside the crane's radius, "Trip-Skip" maintains continuous concreting cycle.
- ★ The dumper is entirely independent of the crane — neither is waiting for the other.
- ★ Whilst one batch is placed by the crane, the dumper is hauling yet another filled skip from the mixer.
- ★ Four sizes available—30 cu. ft., 21 cu. ft., 16 cu. ft. and 12.5 cu. ft. (struck capacities).
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- ★ "Trip-Skip" is interchangeable with normal tipping skip on all Johnson Dumpers.
- ★ The Johnson System enables a *filled* skip to be picked up by the dumper — useful when muck-shifting from excavations, etc.
- ★ Have a demonstration on your job.



Filled skip is lodged in Ground Frame, ready for the crane. Dumper backs out, picks up an empty skip from second Ground Frame and returns to mixer for another batch.

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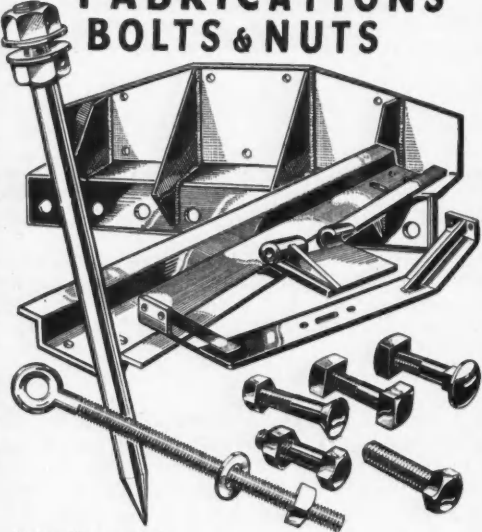
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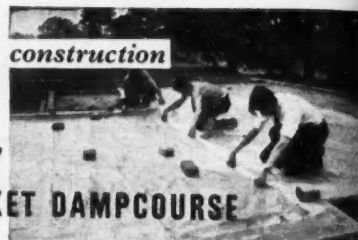
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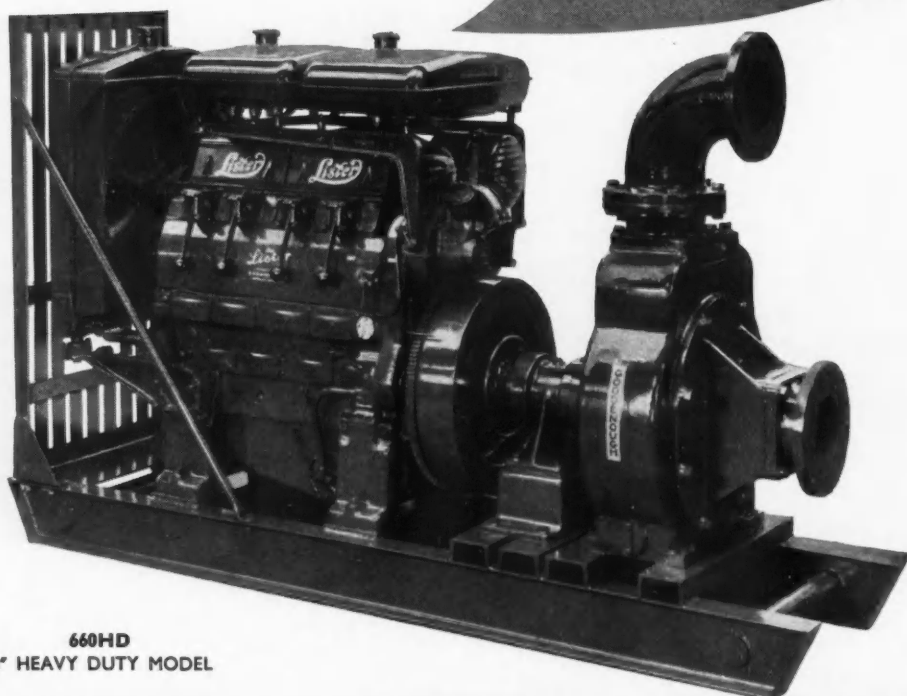
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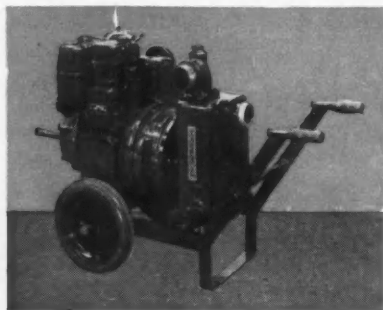
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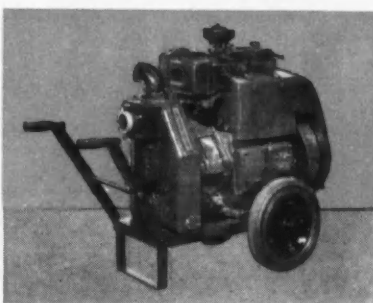


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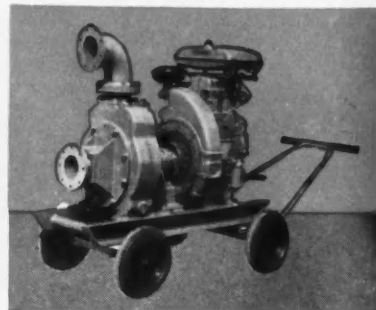
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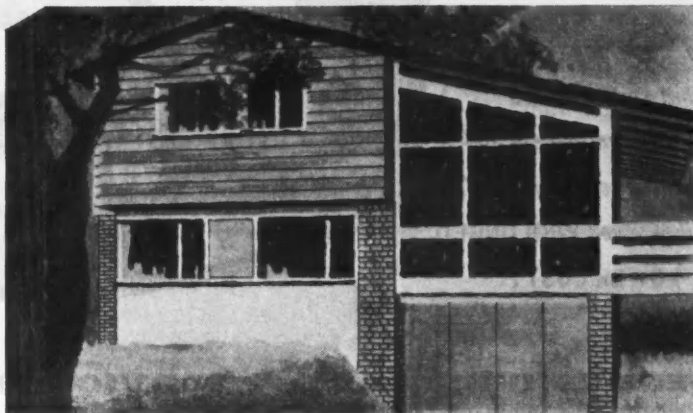
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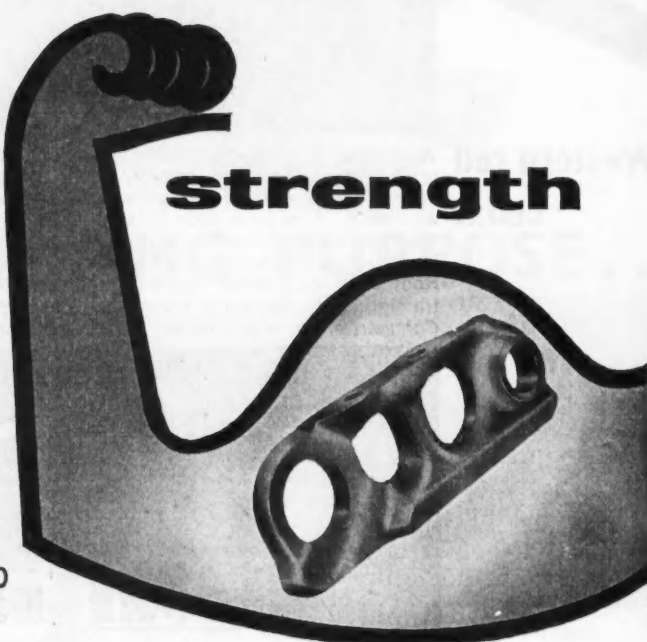
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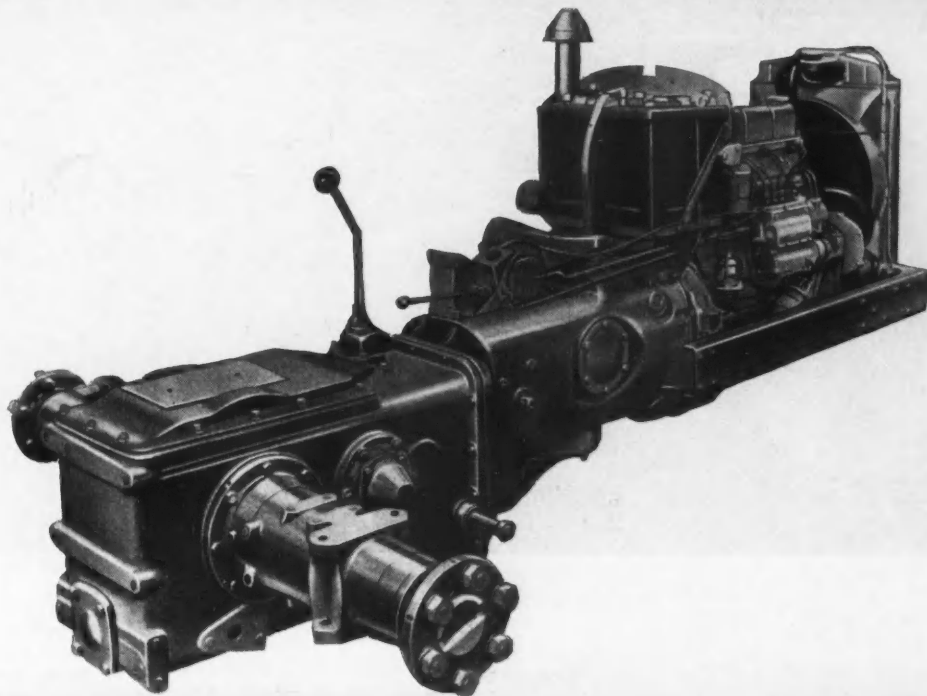
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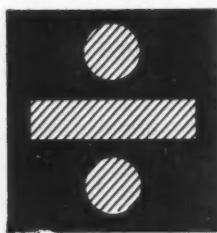
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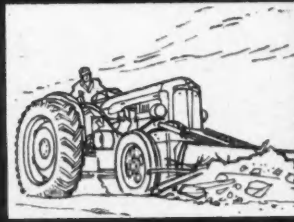
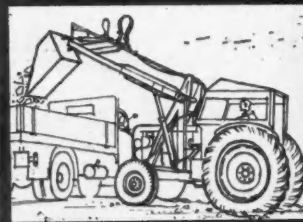
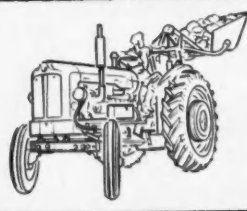
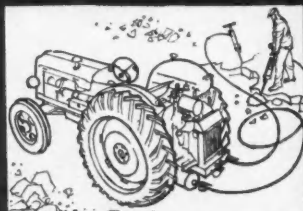
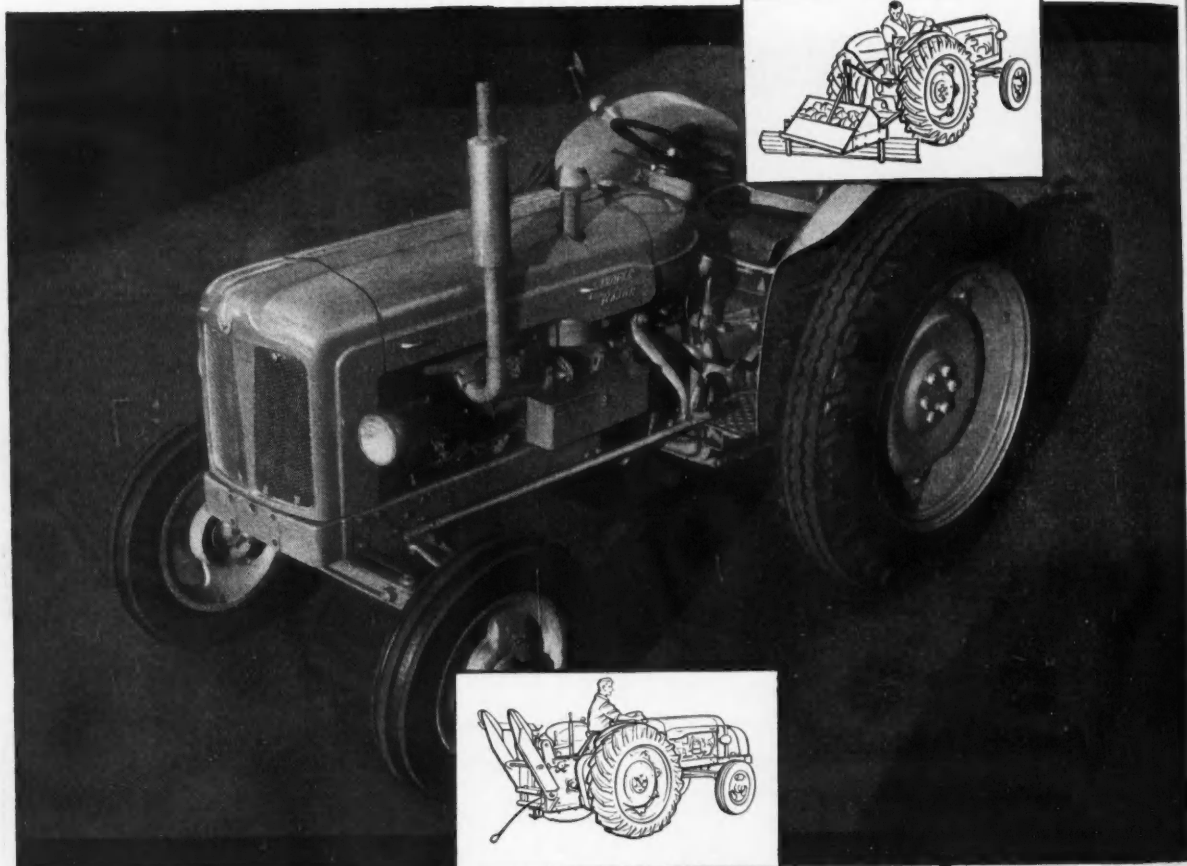
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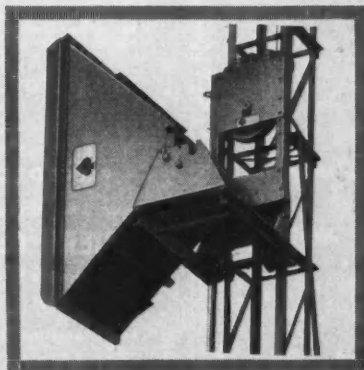


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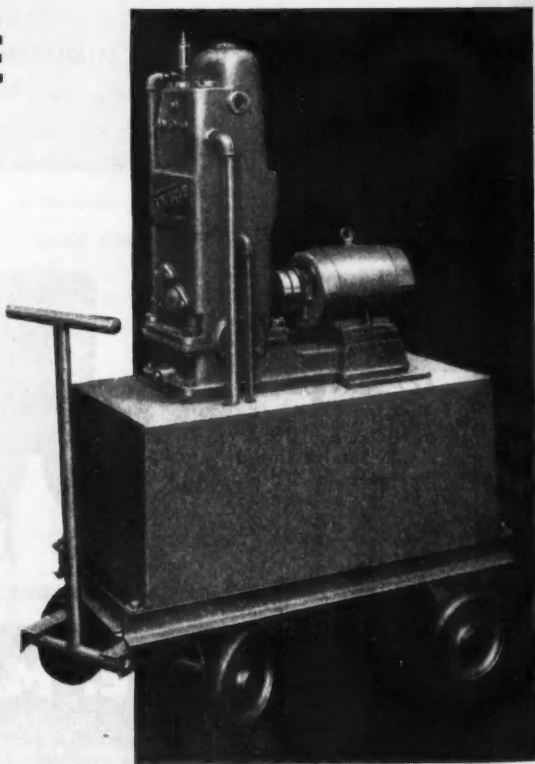
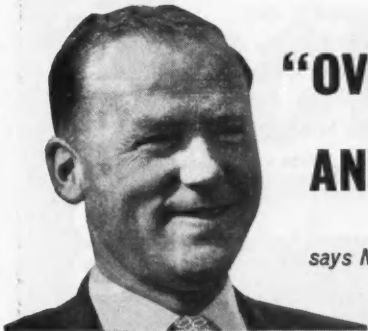


Illustration shows pump mounted on a 25 gall. tank as a portable unit. Self contained petrol engine driven models are also supplied

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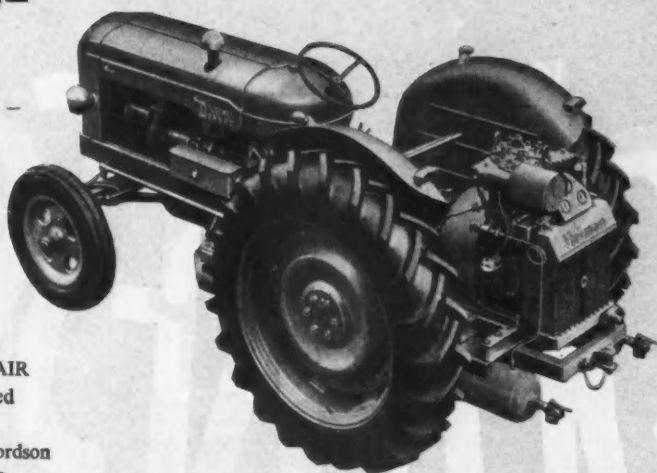
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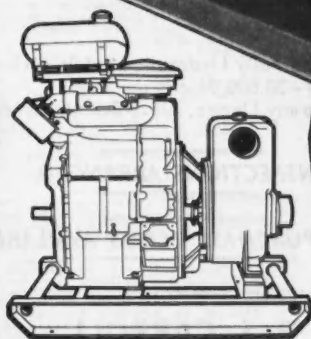
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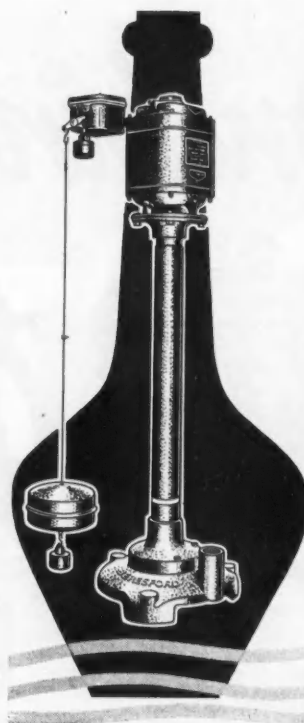
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The identity of candidates will not be revealed to our clients without their prior permission.

For the convenience of clients and candidates we have Regional Offices in Glasgow, Manchester, Bristol and Birmingham but, in the first instance, applicants should forward brief details, quoting the reference number, to:

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APPOINTMENTS DIVISION
2 ALBERT GATE, LONDON, S.W.1**



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DRAINAGE**

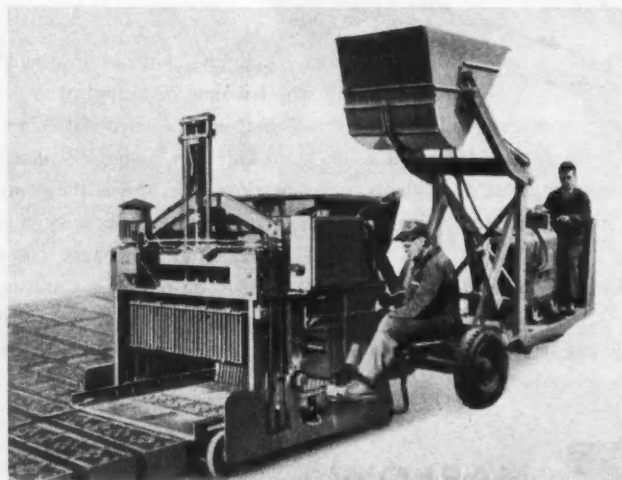
Here is the most efficient and trouble-free cellar pump you ever saw. All you do is stand it in a small sump, run a hose from the outlet, plug in the motor and forget it. But the pump will remain on the alert night and day; and whenever the level in the sump reaches the float, the pump will start working and keep on until the level is reduced. May we send you full details?

8N.251

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CONTRACTS

FLINTSHIRE COUNTY COUNCIL.

RECONSTRUCTION OF HIGH STREET,
CONNAH'S QUAY.

TENDERS are invited for the RECONSTRUCTION and WIDENING of the CARRIAGEWAY and FOOTPATHS in Two Sections of High Street, Connaah's Quay. The work comprises generally some Demolition of Old Property, Excavations, Surface Water Drainage, the Construction of a Reinforced Concrete Carriageway, Footpath Construction, and new Brick Boundary Wallings, etc.

Copies of the Specification, Bill of Quantities, Form of Tender, etc., may be obtained, and Drawings inspected, at the Office of the County Surveyor, E. W. W. RICHARDS, A.M.I.C.E., A.M.I.St. Struct. E. A.M.I.Mun.E., County Buildings, Mold, during normal working hours, upon the payment of a deposit of Three Guineas, which will be returned upon the receipt of a bona-fide Tender.

Tenders, in plain sealed envelopes, marked "Tender for High Street, Connaah's Quay," to be delivered to the undersigned, not later than 10 a.m., TUESDAY, 17th May, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

W. HUGH JONES,
Clerk to the County Council.

County Buildings,
Mold.

ROYAL BOROUGH OF NEW WINDSOR.

STREET LIGHTING.

TENDERS are invited for the ERECTION OF GROUP "B" PRESTRESSED SPUN CONCRETE LIGHTING COLUMNS, FITTING LANTERNS AND LAMPS, AND WIRING TO BASE COMPARTMENT ONLY.

Drawings may be seen, and Tender documents obtainable from the Borough Engineer, Kipling Memorial Building, Alma Road, Windsor.

Tenders, in official envelope provided, must be sent to me by Noon, MONDAY, 30th May, 1960.

The Council does not bind itself to accept the lowest or any Tender.

J. E. SIDDALL,
Town Clerk.

Kipling Memorial Building,
Alma Road,
Windsor.

BOROUGH OF BASINGSTOKE.

ROADS AND SEWERS—33rd INSTALMENT—
SOUTH HAM.

TENDERS are invited for the CONSTRUCTION of approx. 5,600 sq. yd. of 6in. UNREINFORCED CONCRETE CARRIAGEWAYS, with approx. 2,800 sq. yd. of BITUMEN MACADAM SURFACING, together with SURFACE WATER DRAINAGE and approx. 300 lin. yd. of 6in. FOUL SEWERS, and other ancillary works. Specification, Bill of Quantities and Form of Tender may be obtained from the Borough Surveyor, Municipal Buildings, Basingstoke, on payment of a £2 2s. deposit which will be refunded on receipt of a bona-fide Tender not subsequently withdrawn.

Tenders must be delivered to the undersigned, in a plain sealed envelope endorsed "Tender for Roads and Sewers—33rd Instalment—South Ham," not later than Noon on MONDAY, 23rd May, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

L. WOMERSLEY,
Town Clerk.

Municipal Buildings,
Basingstoke,
25th April, 1960.

BOROUGH OF BARKING.

BOROUGH ENGINEER AND SURVEYOR'S
DEPARTMENT.RECONSTRUCTION OF ALFRED'S WAY (A.13)
BETWEEN GARDEN ROAD AND
KING EDWARD'S ROAD.

TENDERS, returnable by 9 a.m. on THURSDAY, the 26th May, are invited for the BREAKING-UP of the EXISTING CONCRETE and ASPHALT CARRIAGEWAY and RECONSTRUCTING with a 10in. thick REINFORCED CONCRETE SLAB, 1,720 sq. yd. in extent, together with ancillary Drainage and Kerbing Works.

Specification, Bill of Quantities and Form of Tender can be obtained on application to the Borough Engineer and Surveyor, Town Hall, Barking, Essex. E. R. FARR,
Town Clerk.

Town Hall,
Barking.

RURAL DISTRICT COUNCIL OF
GLOUCESTER.

LONGFORD SEWAGE DISPOSAL WORKS.

EXTENSION SCHEME.

CONTRACT NO. 3.

The Council invite contractors with experience of similar works, who desire to TENDER for the ABOVE-MENTIONED CONTRACT, to submit their names and give full details of such experience, together with the names of three Engineers for whom similar works have been carried out, to the Clerk to the Council not later than the 21st May, 1960.

The Contract will comprise the Construction of the undermentioned Works, in accordance with the Drawings, Specification, Bill of Quantities and General Conditions of Contract prepared by MESSRS. W. HERBERT BATEMAN AND PARTNERS, of Bath, the Consulting Engineers to the Council:—

- (1) The Construction in Mass Concrete of Three Stormwater Tanks of 225,000 gallons total capacity.
- (2) The Construction in Reinforced Concrete of a Circular Primary Settling Tank, capacity 150,000 gallons.
- (3) The Construction in Reinforced Concrete of Three Surface Aeration Tanks of 231,000 gallons total capacity.
- (4) The Construction in Reinforced Concrete of a Heated Sludge Digestion Tank, capacity 625,000 gallons, Heater House, Surplus Gas Burner and Foundation Works to Gas Holder.
- (5) The Construction of a Sludge Pumping Station.
- (6) All Ancillary Access Roads, Paths, Site Drains, Alterations and Extensions to Existing Channels, etc.
- (7) Improvements to Existing Access Roads.
- (8) Improvements to Existing Office, Laboratory and Garage Accommodation.

The Council reserve the right to select the firms who will be invited to Tender, and it is anticipated that the Tender documents will be available to the selected contractors on or about the 28th MAY, 1960.

W. J. KNIGHT,
Clerk to the Council.

29 Brunswick Square,
Gloucester.
27th April, 1960.

CONTRACTS

MONTGOMERYSHIRE COUNTY COUNCIL.

COUNTY SURVEYOR'S DEPARTMENT.

ROAD SURFACE DRESSING.

TENDERS are invited for the APPLICATION of approx. 185,000 gallons of HOT TAR-BITUMEN COMPOUND for SURFACE DRESSING CARRIAGEWAYS at various sites throughout the County.

Specification, Form of Tender and Schedule of Sites may be obtained on application to the undersigned, Tenders, sealed and endorsed "Surface Dressing," to be delivered to the County Clerk's Office, Welshpool, by the First Post on TUESDAY, 17th May, 1960. The Council does not bind itself to accept the lowest or any Tender, and reserves the right to apportion the work to more than one contractor.

MEURIG J. DAVIES,
County Surveyor.
County Surveyor's Department,
County Offices,
Welshpool.
27th April, 1960.

BOROUGH OF BILSTON.

BOROUGH ENGINEER AND SURVEYOR'S
DEPARTMENT.BUNKERS HILL LANE—CONSTRUCTION OF
NEW STORM SEWER.

TENDERS are invited for the CONSTRUCTION of approx. 320 lin. yd. of 15in. dia. CONCRETE PIPES and 150 lin. yd. of 9in. dia. SECONDS QUALITY GLAZED STONEWARE PIPES, together with Manholes and ancillary works.

Drawings may be inspected at the Office of the Borough Engineer and Surveyor, Municipal Buildings, Hall Street, Bilston, from whom Tender documents may be obtained upon payment of a deposit of Two Guineas, which sum will be refunded upon receipt of a bona-fide Tender not subsequently withdrawn. Tenders, in plain sealed envelopes endorsed "Contract No. 244—Bunkers Hill Lane—Construction of New Storm Sewer," to be delivered to the undersigned not later than 12 Noon on FRIDAY, the 27th May, 1960.

The lowest or any Tender will not necessarily be accepted.

A. M. WILLIAMS,
Town Clerk.

Town Hall,
Bilston, Staffs.
April, 1960.

CITY AND COUNTY OF NORWICH.

WATER DEPARTMENT.

CONSTRUCTION OF REINFORCED CONCRETE
WATER TOWER, CAPACITY 130,000 GALLONS, AT
FRAMINGHAM EARL, NORWICH.

TENDERS are invited for the ABOVE WORK. Documents can be obtained from the office of the Water Department, City Hall, Norwich (Norwich 01A), and a full set of Drawings can be inspected. Closing date for Tenders is MONDAY, 23rd May, 1960.

S. N. KELLY,
Engineer and Manager.
City Hall,
Norwich.
Norwich 01A.

LEITCHWORTH URBAN DISTRICT COUNCIL.

STREET LIGHTING IMPROVEMENTS, 1960/61.

TENDERS are invited from experienced contractors for the REMOVAL of 46 EXISTING STEEL AND CONCRETE COLUMNS, and the ERECTION of 33 GROUP "A" and 98 GROUP "B" CONCRETE COLUMNS, together with the INSTALLATION of LANTERNS, GEAR, etc. Columns, Lanterns, Gear, etc., will be supplied under a separate Contract. Documents may be obtained from E. L. JOHNSON, M.I.Mun.E., Engineer and Surveyor, The Council House, Leitchworth, Herts., on payment of a deposit of £2 2s., which will be refunded on receipt of a bona-fide Tender.

Tenders are to be received, in the envelope provided, by Noon on 20th MAY, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

H. PLINSTON,
Clerk of the Council.
The Council House,
Leitchworth, Herts.
27th April, 1960.

RUTHIN RURAL DISTRICT COUNCIL.

GRAIG-FECHAN—CONTRACT NO. SD4.

SEWERAGE AND SEWAGE DISPOSAL.

TENDERS are invited for CARRYING OUT THE WORKS which comprise the FOLLOWING:

- (1) Foul Water Sewer—6in. dia. Salt Glazed Ware, approx. 1,500 lin. yd., complete with Brick and precast Concrete Manholes.
- (2) Sewage Disposal Works, to serve a population of 120 persons, consisting of Screening Chamber, Sedimentation Tanks, Percolating Filter Beds, Humus Tanks, Drying Beds, Access Road, etc.
- (3) The Restoration of Surfaces and the Maintenance of the Works for a period of 12 Months.

Copies of the General Conditions of Contract, Specification, Bill of Quantities, Drawings and Form of Tender may be obtained from SIR HERBERT HUMPHRIES AND McDONALD, Consulting Engineers, Park Chambers, 276 Monument Road, Edgbaston, Birmingham, 16, on the deposit of 10 Guineas, which will be returned on receipt of a bona-fide Tender not subsequently withdrawn, and the return of all documents and Drawings. Cheques must be made payable to Ruthin Rural District Council.

Particulars of the proposed works can be inspected daily between 9.30 a.m. to 12.30 p.m. and 2 p.m. to 5 p.m., Monday to Friday inclusive, at the Offices of the Consulting Engineers, and at the Office of the Surveyor to the Rural District Council, Wen Street Offices, Ruthin. Information concerning the Drawings and documents can only be obtained from the Consulting Engineers.

Note.—The Tender, together with the priced Bill of Quantities enclosed separately in the proper endorsed envelopes provided for the purpose, must be sealed and delivered to the Clerk of the Council, Council Offices, Wen Street, Ruthin, not later than Noon on MONDAY, 30th May, 1960. Tenders and/or documents received after that time will not be considered on receipt of a bona-fide Tender.

The Council do not bind themselves to accept the lowest or any Tender.

J. BUCKINGHAM,
Clerk of the Council.
Well Street Offices,
Ruthin,
Denbighshire.
April, 1960.

CONTRACTS

COUNTY BOROUGH OF BURY.

SEEDFIELD SECONDARY MODERN SCHOOL
PLAYING FIELDS.

TENDERS invited for LEVELLING, DRAINING, CULTIVATION, SEEDING, LAYING OUT and ancillary works for the ABOVE-MENTIONED PLAYING FIELDS. Tender documents obtainable from and Drawings inspected at Borough Engineer's Office, Town Hall, Bury. Tenders, in official envelope, must reach me not later than SATURDAY, 21st May, 1960.

EDWARD S. SMITH,
Town Clerk.
Town Hall,
Bury.
26th April, 1960.

BOROUGH OF HESTON AND
ISLEWORTH.TEMPORARY BRANCH LIBRARY—
NEW HESTON ROAD, HESTON.

TENDERS are invited for the PURCHASE and REMOVAL from the site of the existing WOODEN LIBRARY BUILDING, size 43ft. x 25ft. x 10ft. high to eaves. Particulars and Forms of Tender to be obtained from the Borough Engineer and Surveyor, 88 Lampton Road, Hounslow. Tenders must be sealed in the envelope provided and received by me by Noon on 30th MAY, 1960.

D. MATHIESON,
Town Clerk.

Town Hall,
Hounslow, Middlesex.

BOROUGH OF GILLINGHAM.

STRATFORD ESTATE—STAGE III.

20 HOUSES AND 12 GARAGES.

FIXED-PRICE TENDERS are invited for the ERECTION OF 20 HOUSES and 12 GARAGES at HENLEY CLOSE, RAINHAM, Kent.

Persons desirous of tendering may obtain copies of the Bills of Quantities, Specification and Form of Tender, and may inspect the Drawings and Conditions of Contract at the Borough Engineer's Department during usual office hours on and after 11th MAY, 1960.

Applications should be accompanied by a cheque for Five Guineas (£5 5s.), made payable to Gillingham Corporation. This sum will be refunded on the receipt of a bona-fide Tender not subsequently withdrawn. Tenders, in sealed envelopes supplied, and endorsed "Tender for Stratford Estate—Stage III," must be delivered to the undersigned by not later than 12 Noon on FRIDAY, 3rd June, 1960.

FRANK HILL,
Town Clerk.

Municipal Buildings,
Gillingham, Kent.
27th April, 1960.

BOROUGH OF GILLINGHAM.

Twydall Hawthorne Estate.

62 FLATS.

FIXED-PRICE TENDERS are invited for the ERECTION OF ONE BLOCK of 62 FLATS in FOUR STOREYS, comprising 28 Two-bedroom, 34 One-bedroom Flats, Outbuildings, and 44 Car Ports at Goudhurst Road, Gillingham, Kent.

Persons desirous of tendering may obtain copies of the Bill of Quantities, Specification and Form of Tender, and may inspect the Drawings and Conditions of Contract at the Borough Engineer's Department during usual office hours on and after 16th MAY, 1960.

Applications should be accompanied by a cheque for Five Guineas (£5 5s.), made payable to Gillingham Corporation. This sum will be refunded on the receipt of a bona-fide Tender not subsequently withdrawn. Tenders, in sealed envelopes supplied, and endorsed "Tender for Goudhurst Road Flats," must be delivered to the undersigned by not later than 12 Noon on FRIDAY, 17th June, 1960.

FRANK HILL,
Town Clerk.

Municipal Buildings,
Gillingham, Kent.
27th April, 1960.

BOROUGH OF ELLESMERE PORT.

NEW PUBLIC LIBRARY.

TENDERS are invited from building contractors for the ERECTION and COMPLETION of a PUBLIC LIBRARY at the new Civic Centre.

Tender documents, consisting of Bills of Quantities, Form of Tender, etc., will be available for dispatch on 1st JUNE, 1960, and applications for such documents should be made to the Council's Architects, MESSRS. GORNALL, KELLY AND PARTNERS, 155 The Albany, Old Hall Street, Liverpool, accompanied by a deposit of Five Guineas in the form of a cheque made payable to the Ellesmere Port Borough Council. Deposits are returnable on the return of the Tender documents, with or without a bona-fide Tender, or, in the case of a Tender which is accepted and not subsequently withdrawn, on completion of a formal Contract between the Council and the successful tenderer.

Applicants for Tender documents may be required to furnish evidence of their previous experience in connection with the erection of buildings of similar size and character.

Tenders must be received by the undersigned by Noon on FRIDAY, 24th June, 1960, properly sealed in the envelope which will be provided with the Tender documents, otherwise they will not be considered by the Council.

R. J. BERNIE,
Town Clerk.

Municipal Offices,
Ellesmere Port.
2nd May, 1960.

WEST KESTIVEN RURAL DISTRICT COUNCIL.

TENDERS FOR BUNGALOWS.

TENDERS are invited for the CONSTRUCTION of TRADITIONAL TYPE BUNGALOWS in the Parishes of CAYTHORPE (12), NORTH WITHAM (2) and PICKWORTH (2).

Bills of Quantities, Drawings, Specifications and Form of Tender can be obtained from the Council's Surveyor, Sandon Close, Grantham, on receipt of a deposit of £2 2s. by cheque made payable to the West Kesteven Rural District Council, which will be returned on receipt of a bona-fide Tender not subsequently withdrawn.

Tenders to be forwarded to me at the Council Offices, Sandon Close, Grantham, in plain sealed envelopes marked "Erection of Bungalows at —," by FRIDAY, the 27th May, 1960.

J. R. MORGAN,
Clerk of the Council.

2nd May, 1960.

CONTRACTS

COUNTY BOROUGH OF READING.

THE LAURELS HOUSING ESTATE—SITE NO. 49.

TENDERS are invited for CONSTRUCTION of 6,000 sq. yd. (approx.) CARRIAGEWAYS, with Foul and Surface Water Sewers, on the ABOVE ESTATE. General Conditions and Drawings may be inspected, and Bill of Quantities, etc., obtained, for fee of Two Guineas (cheques payable to Reading Corporation), at Borough Surveyor's Office (P.O. Box 17), Town Hall, Reading. Fee refunded for bona-fide Tender. Tenders to be delivered to TOWN CLERK, Town Hall, Reading, by 12 Noon on TUESDAY, 7th June, 1960. No Tender considered unless enclosed in plain sealed envelope endorsed "The Laurels—Roads and Sewers," but bearing no indication of sender. The Corporation do not bind themselves to accept any Tender.

BOROUGH OF MAIDENHEAD.

PRIVATE STREET WORKS—SPERLING ROAD.

The COUNCIL invites TENDERS for the MAKING UP of the ABOVE ROAD (approx. 120 yd. long), comprising Surface Water Drainage; Hardcore Foundation; Tarmacadam Base Course and Bituminous Macadam Wearing Course to the Carriageway. Provision and Laying of Precast Concrete Kerb and Scoriae Block Channel; Precast Concrete Flag Paving and Bituminous Macadam Verges to Footways; Erection of Lighting Columns, and all incidental works. Drawings may be seen at and Tender documents obtained from, the Office of the Borough Engineer and Surveyor, 14 Craufurd Rise, on payment of a deposit of Two Pounds (£2), which will be refunded upon receipt of a bona-fide Tender and the return of all documents.

Tenders, in plain sealed envelopes endorsed "Private Street Works—Sperling Road," and bearing no mark or indication of the sender, must be delivered to me not later than Noon on FRIDAY, 27th May, 1960.

The Council does not bind itself to accept the lowest or any other Tender.

STANLEY PLATT,
Town Clerk.

Guildhall,
Maidenhead.
April, 1960.

BOROUGH OF POOLE.

CONTRACT NO. 6—
CANFORD AND MERLEY SEWERAGE.

TENDERS are invited for the CONSTRUCTION of a SEWERAGE SYSTEM at CANFORD AND MERLEY, Poole, Dorset, consisting of:

- (1) About 8,000 lin. yd. of Sewers from 4 in. to 12 in. dia., ancillary works including a Railway Crossing.
- (2) Three Pumping Stations and 900 lin. yd. of 4 in. to 8 in. dia. C.I. Pumping Mains, including a Crossing of the River Stour.

Tender documents from The Consulting Engineers, J. D. AND D. M. WATSON, M.M.I.C.E., 67 Tufton Street, Westminster, S.W.1. Deposit: 10 Guineas; cheques should be crossed and made payable to the Poole Corporation, and will be returned on receipt of a bona-fide Tender and return of all documents. Tenders to be endorsed "Tender for Canford and Merley Sewerage," by Noon on 14th JUNE, 1960. The Council do not bind themselves to accept the lowest or any Tender.

J. G. HILLIER,
Town Clerk.

April, 1960.

BOROUGH OF ROMFORD.

FENCING IN PARKS.

TENDERS are invited for the PROVISION and ERECTION of SEVERAL LENGTHS OF FENCING, including Chain-link Mesh 5ft. High Wrought-iron 4ft. h gh Continuous Bar Fencing, and the Refixing of considerable lengths of 6ft. high Fencing, totalling, in all, about 1,050 lin. yd. Tender documents may be obtained from the Borough Engineer and Surveyor, upon application, accompanied by a cheque value £2 2s. as deposit, which will be returned upon receipt of a bona-fide Tender.

The closing date or the receipt of Tenders will be First Post, TUESDAY, 7th June, 1960.

JOHN E. SYMONS,
Town Clerk.

Town Hall,
Romford.

BOROUGH OF ROMFORD.

TENDERS are invited for the SUPPLY of the UNDERMENTIONED NEW VEHICLES and PLANT:

- 3 Salvage Trailers.
- 2 Scw. Ford Vans.
- 2 Three-way Tipper Ford Lorries (Diesel Engines).
- 1 Tower Wagon (Diesel Engine).
- 1 24 n. Dennis Motor Mower.

Tender Forms may be obtained from the Borough Engineer and Surveyor, Town Hall, Romford, and completed Tender Forms must be delivered to me by 25th MAY.

JOHN E. SYMONS,
Town Clerk.

Town Hall,
Romford.
4th May, 1960.

CITY OF OXFORD.

COWLEY CENTRE DEVELOPMENT.

CONSTRUCTION OF ROADS AND SEWERS.

FIXED-PRICE TENDERS are invited from experienced contractors for the CONSTRUCTION of ROAD, SEWER, and ancillary works in connection with the Development of a new major Shopping Centre for the Cowley District of the City of Oxford.

The Contract will involve the Construction of approx. 13,000 sq. yd. of new Carriageway, using Lean Concrete Granular Base with Machine-laid Bitumen Macadam Surfacing; 3,000 lin. yd. of Foul and Surface Water Sewers 33 in.-6 in. dia.; Manholes, Paving, and other incidental works.

The General Conditions of Contract, Specification, Bill of Quantities and Form of Tender may be obtained on written application from the City Engineer and Surveyor, Town Hall, Oxford, on or after THURSDAY, 12th May, 1960.

Drawings showing details of the above work may be viewed, by appointment, at the Office of the City Engineer and Surveyor.

Sealed Tenders, on the form supplied, and in the endorsed envelope provided, are to be returned by Post to the undersigned, to arrive not later than THURSDAY, 2nd June, 1960.

The Council does not undertake the accept the lowest or any Tender.

HARRY PLOWMAN,
Town Clerk.

The Town Hall,
Oxford.

CONTRACTS

DERBYSHIRE COUNTY COUNCIL.

BRIDGES AND HIGHWAYS DEPARTMENT.

PRIVATE STREET WORKS.

STEVEN'S LANE (PART), GRANGE AVENUE AND LAWRENCE AVENUE, BREASTON.

TENDERS are invited for LEVELLING, PAVING, KERBING, DRAINING and SURFACING the ABOVE STREETS. The works include 540 yd. 9 in. x 6 in. Surface Water Drainage, 1,010 yd. Kerbing, and 4,360 super. yd. Carriageway and Footpath Surfacing in Coated Macadam.

Plans and Conditions of Contract may be seen, and Bills of Quantities, Form of Tender and Specification obtained from the County Surveyor, County Offices, Matlock, Derbyshire, on payment of a deposit of £2, cheques payable to Derbyshire County Council. Deposit will be refunded to bona-fide tenders on signing Contract or notification of non-acceptance.

Tenders, in plain sealed envelopes endorsed "P.S.W. B. and H." to be delivered to the undersigned by 31st MAY, 1960.

The County Council does not bind itself to accept the lowest or any Tender.

D. G. GILMAN,
Clerk of the County Council.

County Offices,
Matlock.

BOROUGH OF MORECAMBE AND HEYSHAM.

PROPOSED PUBLIC CONVENIENCES OPPOSITE HAPPY MOUNT PARK.

TENDERS are invited for the ERECTION of PUBLIC CONVENIENCES opposite Happy Mount Park.

General Conditions, Specifications, Bills of Quantities and Form of Tender may be obtained from, and Plans inspected at, the Office of the Borough Engineer and Surveyor, upon payment of a deposit of £2, which will be returned on receipt of a bona-fide Tender not subsequently withdrawn.

Tenders, endorsed "Public Conveniences," must reach me by 9 a.m., TUESDAY, 7th June, 1960.

ROGER ROSE,
Town Clerk.

2nd May, 1960.

WALTON AND WEYBRIDGE URBAN DISTRICT COUNCIL.

PRIVATE STREET WORKS.

SUNNYSIDE, WALTON-ON-THAMES.

TENDERS are invited for the MAKING-UP of the ABOVE STREET under the Highways Act, 1959.

The works comprise the Laying of Kerbs and Channels, the Provision of Hardcore Foundations to Carriageway, and the Surfacing approx. 100 lin. yd. of Carriageway and Footways with Bituminous Macadam, and other incidental works.

The Specification, Bills of Quantities and Form of Tender may be obtained from, and the Plans and Conditions of Contract inspected at, the Office of the Engineer and Surveyor to the Council, Council Offices, Walton-on-Thames.

Tenders are to be enclosed in plain sealed envelopes endorsed "Tender for Private Street Works," and delivered to the undersigned not later than 5 p.m. on TUESDAY, 31st May, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

EDWARD G. HUBBARD,
Clerk of the Council.

Council Offices,
Walton-on-Thames,
Surrey.

May, 1960.

THE URBAN DISTRICT COUNCIL OF HAVANT AND WATERLOO.

SEA DEFENCES—EASTOKE CORNER, HAYLING ISLAND.

TENDERS are invited for the CONSTRUCTION of SEA DEFENCE WORKS at Eastoke Corner, Hayling Island.

The works consist of the Construction of Box Groyning along a frontage of approx. 24½ yd., 50ft. wide; the Construction of a Concrete Slipway and a Short Extension to the Sea Wall, and the Construction of the Conventional Groynes.

Conditions of Contract and Drawings may be inspected at the Office of the Engineer and Surveyor, 1 Park Road North, Havant, from whom Specifications, Bills of Quantities and Form of Tender may be obtained.

No Tender will be received except in a plain sealed envelope which must bear the word "Tender," followed by the subject to which it relates, but shall not bear any name or mark indicating the sender.

Tenders must be delivered to the CLERK OF THE COUNCIL, Town Hall, Havant, not later than 12 Noon on FRIDAY, 10th June, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

THE COQUET WATER BOARD.

NORTHERN TRUNK MAIN.

CONTRACT NO. 6.

The Coquet Water Board invite TENDERS for the LAYING of the FOLLOWING—

- 11,340 lin. ft. or thereabouts of 18 in. Steel Pipes.
- 19,280 lin. ft. or thereabouts of 16 in. Steel Pipes.
- 13,140 lin. ft. or thereabouts of 9 in. Steel Pipes.
- 42,340 lin. ft. or thereabouts of 12 in. Spun-Iron Pipes.
- 29,275 lin. ft. or thereabouts of 9 in. Spun-Iron Pipes.
- 1,500 lin. ft. or thereabouts of 6 in. Spun-Iron Pipes.
- 1,800 lin. ft. or thereabouts of 3 in. Spun-Iron Pipes.

Together with Special Pipes, Fittings, and the Construction of ancillary works.

The works are situated in the County of Northumberland commencing at Warkworth in the rural district of Alnwick, and terminating at Windy Law in the rural district of Warkworth.

Tender documents may be obtained from Mr. S. G. BARRETT, Engineer and Manager of the Coquet Water Board, P.O. Box 104, Pilgrim Street, Newcastle upon Tyne, 1, on the payment of a deposit of Five Guineas, which will be returned on the receipt of a bona-fide Tender, not subsequently withdrawn, and the return of all documents. Cheques should be made payable to the Coquet Water Board.

Tenders should be returned to the undersigned in the envelope provided, which should not bear any mark identifying the sender, not later than 10 a.m. on the 17th JUNE, 1960.

The Board are not bound to accept the lowest or any Tender.

F. G. EGNER,
Clerk and Solicitor to the Board.

14 Northumberland Square,
North Shields.

CONTRACTS

BOROUGH OF SOUTHGATE.

RESURFACING OF TENNIS COURT AT HEDGE LAKE SPORTS GROUND.

TENDERS are invited from specialist firms to RESURFACE the TENNIS COURT of approx. 722 sq. yd. at the ABOVE SITE.

Contractors wishing to tender should apply, in writing, to the Borough Engineer and Surveyor for the relevant documents.

Drawings and General Conditions of Contract may be inspected at the Engineer's Office, Palmers Green, N.13, during normal office hours.

Sealed Tenders must be returned to the undersigned not later than 12 Noon, MONDAY, 23rd May, 1960. The Council do not bind themselves to accept the lowest or any Tender.

GORDON H. TAYLOR,
Town Clerk.

Town Hall,
Palmers Green, N.13.
May, 1960.

BOROUGH OF SOUTHGATE.

PROVISION OF BITUMEN MACADAM AND HOT ROLLED ASPHALT WEARING COURSES TO VARIOUS ROADS.

TENDERS are invited from specialist firms for SUPPLYING and LAYING WEARING COURSES of BITUMEN MACADAM (B.S.S. 1621:1954), and HOT ROLLED ASPHALT (B.S.S. 594:1958) as follows—

- CONTRACT "A" (No. 1625)—County Roads: (1) High Street and Cannon Hill, N.14, A.1004, approx. 17,000 sq. yd. of Hot Rolled Asphalt.
- (2) Waterfall Road, N.11, A.1003, approx. 6,350 sq. yd. of Bituminous Macadam.

CONTRACT "B" (No. 1626)—District Roads: The Surfacing of Six District Roads in Bituminous Macadam totalling approx. 26,000 sq. yd.

The contracts also include for planing etc., where necessary, the existing road surfaces and various ancillary works.

Separate documents will be issued for each contract and contractors may tender for one or both contracts. Contractors wishing to tender should apply to the Borough Engineer and Surveyor for a copy of the relevant documents.

Sealed Tenders, in the envelope provided, must be received by the undersigned not later than 12 Noon on TUESDAY, the 24th May, 1960. The Council do not bind themselves to accept the lowest or any Tender.

GORDON H. TAYLOR,
Town Clerk.

Town Hall,
Palmers Green, N.13.
May, 1960.

BOROUGH OF SOUTHGATE.

WIDENING OF CROWN LANE (PART), N.14.

TENDERS are invited from specialist firms for the WIDENING of part of CROWN LANE, N.14. The contract will provide for Constructing approx. 200 sq. yd. of 6 in. Concrete to form foundation of area of new carriageway, and Provide and Lay approx. 1,250 sq. yd. of Bituminous Macadam Surfacing, together with Kerb, Paving and other ancillary works.

Contractors wishing to tender should apply to the Borough Engineer and Surveyor for a copy of the relevant documents.

Sealed Tenders, in the envelope provided, must be received by the undersigned not later than 12 Noon on TUESDAY, the 24th May, 1960. The Council do not bind themselves to accept the lowest or any Tender.

GORDON H. TAYLOR,
Town Clerk.

Town Hall,
Palmers Green, N.13.
May, 1960.

LITTLEBOROUGH URBAN DISTRICT COUNCIL.

The above Council invite TENDERS for the SUPPLY, ERECTION and BRINGING INTO OPERATION of 18 CONCRETE GROUP A LIGHTING COLUMNS, together with 85-watt Sodium Discharge Lanterns, Lamps, Vacuum Jackets and Auxiliary Gear.

Specification, Bill of Quantities and Form of Tender may be obtained from, and Plan and General Conditions inspected, at the office of MR. D. W. ALLISON, B.Sc.(Eng.), A.M.I.Mun.E., Engineer and Surveyor, Council Offices, Littleborough.

No Tender will be received except in a plain sealed envelope endorsed "Tender for Street Lighting," but which must not bear any name or mark indicating the sender.

Tenders, on the prescribed form, sealed and endorsed as above, must be delivered to the undersigned not later than 9 a.m. on MONDAY, 30th May, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

R. C. CLOUGH,
Clerk of the Council.

Council Offices,
Littleborough.
11th May, 1960.

RUGBY RURAL DISTRICT COUNCIL.

WILLOUGHBY SEWERAGE AND SEWAGE PURIFICATION.

CONTRACT NO. 14.

TENDERS are invited for the LAYING of approx. 1¼ miles of 6 in. SALT GLAZED WARE and ASBESTOS-CEMENT SEWERS with CONCRETE TUBE MANHOLES, and the CONSTRUCTION of TWO PUMPING STATIONS and SEWAGE PURIFICATION WORKS, comprising Reinforced Concrete Settling, Digestion and Humus Tanks, Biological Filter, Sludge Drying Beds, Site Pipelines and Chambers, Roads, Paths and Fencing, and other Site Works.

The work is to be done in the Village of Willoughby, on the Birmingham-London Road, A.45, Three Miles East of Dunchurch.

The General Conditions of Contract, Specification and Bills of Quantities may be obtained from the Council's Consulting Engineers, MESSRS. J. D. AND D. M. WATSON, M.M.I.C.E., 67 Tufton Street, Westminster, London, S.W.1, on and after 16th MAY, 1960, on payment of a deposit cheque of Ten Guineas, refundable only to contractors who submit bona-fide Tenders, and return all documents and Drawings. Deposit cheques should be made payable to the Council.

Sealed Tenders must be endorsed "Tender for Contract No. 14," bearing no name or mark indicating the sender, and delivered to the Office of the undersigned not later than Noon on 13th JUNE.

The Council do not bind themselves to accept the lowest or any Tender.

H. A. WILDE,
Clerk of the Council

Council Offices,
24 Warwick Street,
Rugby,
Warwickshire.

2nd May, 1960.

CONTRACTS

CARMARTHENSHIRE COUNTY COUNCIL.
CARMARTHEN-PONTYBEREM-LLANNON ROAD.
B.4306.NEW BRIDGE AND ROADWORKS AT
PONTYBEREM.

TENDERS are invited from experienced public works contractors for the CONSTRUCTION of a NEW SINGLE-SPAN CONCRETE BRIDGE over the RIVER GWENDRAETH FAWR at Pontyberem.

The Work comprises the Construction of Mass Concrete Abutments and Wing Walls, partly Masonry-faced, with Concrete Deck formed of Prestressed Concrete Beams with clear skew span of 38ft. (approx.) and Masonry Parapet Walls.

Foundation Work includes the Driving of approx. 47 tons of Steel Sheet Piling.

The Contract also includes for the Demolition of the existing Masonry Arch Bridge, the Removal of a Tubular Steel Footbridge, 60ft. long, and the Reconstruction of the existing Approach Road for a distance of approx. 130 lin. yd.

Conditions of Contract, Specification and Bill of Quantities may be obtained from the undersigned on payment of Two Pounds, which will be returned on receipt of a bona-fide Tender not subsequently withdrawn.

Plans may be inspected during normal office hours at the undermentioned office.

Tenders, in plain sealed envelopes endorsed "Pontyberem Bridge," and returned to W. S. THOMAS, Esq., Clerk of the County Council, County Hall, Carmarthen, not later than 25th MAY, 1960.

The County Council does not bind itself to accept the lowest or any Tender.

J. L. RICHARDS, A.M.I.C.E.
County Engineer and Surveyor.

Roads and Bridges Dept.,
County Hall,
Carmarthen,
May, 1960.

BOROUGH OF MARGATE.

PRIVATE STREET WORKS.

FIXED-PRICE TENDERS are invited from civil engineering contractors experienced in this class of work, for the MAKING-UP OF PRINCES GARDENS, Margate, and ST. JAMES'S TERRACE, Birchington, under the Highways Act, 1959.

Plans and Conditions of Contract may be seen during usual office hours, and Specifications and Bills of Quantities obtained from the Borough Engineer.

Tenders, in plain sealed envelopes endorsed as directed, must be delivered to the undersigned not later than 12 o'clock Noon on SATURDAY, 28th MAY, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

T. F. SIDNELL,
Town Clerk.

Town Clerk's Office,
40 Grosvenor Place,
Margate,
3rd May, 1960.

CITY OF CARDIFF.COLCHESTER AVENUE SURFACE WATER
RELIEF SEWER.

FIXED-PRICE TENDERS are invited for the CONSTRUCTION IN PUBLIC ROADS of approx. 305 lin. yd. of 24in. dia. CONCRETE SEWER.

Conditions of Tender, Specification, Bills of Quantities and Drawings may be obtained from the City Surveyor, to whom application should be made, accompanied by a deposit of the sum of £2 2s. Cheques should be made payable to the Cardiff Corporation and crossed "Not Negotiable and Co."

The deposit will be refunded on receipt of a bona-fide Tender or the return of the Contract documents by the closing date.

Tenders will not be considered unless enclosed in a plain sealed envelope endorsed "Tender for Colchester Avenue Surface Water Relief Sewer," addressed to the undersigned at the City Hall, Cardiff, and sent by Registered Post so as to be received not later than TUESDAY, 31st MAY, 1960.

The envelope must not bear the name of or any mark indicating the identity of the tenderer.

S. TAPPER-JONES,
Town Clerk.

City Hall,
Cardiff,
April, 1960.

BOLLINGTON URBAN DISTRICT COUNCIL.

SURFACE WATER DRAINAGE.

TENDERS are invited, on a FIXED-PRICE BASIS, for the CONSTRUCTION of about 265 lin. yd. of 9in. and 12in. CONCRETE PIPE SEWER, together with Manholes.

Drawings may be inspected at the office of the Engineer, MR. T. K. KIRKMAN, M.I.Mun.E., A.R.I.C.S., A.M.F.P.I., Council Offices, Bollington, near Macclesfield, from whom Specification, Bill of Quantities and Form of Tender may be obtained on payment of a deposit of One Guinea (payable to Bollington U.D.C.), which will be returned on receipt of a bona-fide Tender not subsequently withdrawn.

Tenders, endorsed "Surface Water Drainage," should be delivered, sealed in the envelope provided, to the undersigned, not later than Noon on FRIDAY, the 3rd June, 1960.

The Council does not bind itself to accept the lowest or any Tender.

A. E. F. DEAR,
Clerk of the Council.

Council Offices,
Bollington,
Macclesfield.

THE URBAN DISTRICT COUNCIL OF ESTON.

FINE COLD ASPHALT SURFACING.

FIXED-PRICE TENDERS are invited for SUPPLYING and LAYING approx. 1,000 tons of SINGLE COURSE, FINE COLD ASPHALT by Mechanical Sower, on the EXISTING SURFACE of VARIOUS ROADS in the Urban District of Eston.

Copies of the Specification, Bills of Quantities and Form of Tender may be obtained from the Engineer and Surveyor, 246 Normanby Road, South Bank, Middlesbrough, on payment of a deposit of £2, which will be returned on receipt of a bona-fide Tender or the return of all the documents.

Tenders, in plain sealed envelopes endorsed "Asphalt Surfacing Programme," but not bearing any name or mark indicating the tenderer, must reach me not later than Noon on TUESDAY, the 7th June, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

T. MYRDDIN BAKER,
Clerk of the Council.

Council Offices,
Cleveland House,
Grange-on-Tees,
29th April, 1960.

CONTRACTS

COUNTY BOROUGH OF DEWSBURY.

PRIVATE STREET WORKS—STOCKHILL STREET.

TENDERS are invited for the CONSTRUCTION of approx. 2,215 sq. yd. of TARMACADAM CARRIAGEWAY and 920 sq. yd. of CONCRETE FLAGGED FOOTPATHS in connection with the ABOVE.

Plans and Conditions of Contract may be seen at, and Specification, Bill of Quantities and Form of Tender obtained from, the Office of the Borough Engineer and Surveyor, Municipal Buildings, Halifax Road, Dewsbury.

Tenders, in plain sealed envelopes endorsed "Private Street Works—Stockhill Street," must be delivered to me by Noon on THURSDAY, 9th June, 1960.

A. NORMAN JAMES,
Town Clerk.

Town Hall,
Dewsbury,
29th April, 1960.

BOROUGH OF EALING.STREET LIGHTING—MADELEY ROAD AND
QUEENS DRIVE.

CONTRACT "A"—SUPPLY of 41 140-W SODIUM LANTERNS, complete with Gear and Lamps.

CONTRACT "B"—SUPPLY and ERECTION of 41 25ft. mounting height STEEL COLUMNS.

Details obtainable from the Borough Engineer, Town Hall, Ealing, W.S., on payment of £5 for each Tender, returnable on receipt of a bona-fide Tender.

Tenders to the TOWN CLERK, Town Hall, Ealing, W.S., by Noon, 31st MAY, 1960.

ESHER URBAN DISTRICT COUNCIL.

(I) WALTON ROAD (B.369) IMPROVEMENT.—

(II) TWO "BUS LAY-BYS" STOKO ROAD (A.245),
COBHAM; AND COPEM LANE (A.244),
OXSHOTT—CONTRACT NO. 304.

TENDERS are invited for EITHER or BOTH of the ABOVE CONTRACT WORKS, which might be carried out as one project, and comprise the FOLLOWING:

(i) CONTRACT NO. 303.—The Provision and Laying of approx. 200 lin. yd. of Kerbing and Channel; 500 sq. yd. of Hardcore Foundation, and 1,500 sq. yd. of 3in. Macadam Carriageway Surfacing, together with the Construction of approx. 200 lin. yd. of 5ft. wide Footway in 2in. Macadam Surfacing, Surface Water Drainage, and various ancillary items.

(ii) CONTRACT NO. 304.—The Construction in 8in. thick Reinforced Concrete of Two "Bus Lay-bys" approx. 80yd. in length together with Kerbing, Footpath, and ancillary works.

Form of Tender, Specification and Bills of Quantities may be obtained from the Engineer and Surveyor's Department, Council Offices, Esher, upon payment of a deposit of £1 is. In respect of each Contract, which will be refunded on receipt of a bona-fide Tender, together with the return of all documents in good condition.

Tenders, on the prescribed form enclosed in the envelope provided, endorsed "Contract No. 303" or "Contract No. 304," as applicable, and bearing no name or mark indicating the tenderer, must be returned to the undersigned not later than 5 p.m. on FRIDAY, 3rd June, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

FREDERICK EDWARDS,
Clerk of the Council.

Council Offices,
Esher.

THE DEARNE URBAN DISTRICT COUNCIL.

PLANT.

TENDERS are invited for the SUPPLY of one MASSEY-FERGUSON 35 DE LUXE INDUSTRIAL TRACTOR, complete with Driving Cab.

Tenders must be delivered to the undersigned, in a plain sealed envelope, not later than the 21st MAY, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

C. BISHOP,
Clerk to the Council.

Council Offices,
Bolton-on-Deerne.

BLETCHLEY URBAN DISTRICT COUNCIL.

TENDERS are invited for the SUPPLY of a BRISTOL D44S DUPLEX CRAWLER TRACTOR, together with Attachments.

Full details and Form of Tender can be obtained on application to the undersigned, and Tenders, in a plain sealed envelope, should be delivered to the Clerk of the Council, Council Offices, Bletchley, by First Post on FRIDAY, 10th June, 1960.

The Council does not bind itself to accept the lowest or any Tender.

J. F. SMITHIE, M.I.Mun.E.,
Engineer and Surveyor.

Council Offices,
Bletchley.

2nd May, 1960.

BLYTH RURAL DISTRICT COUNCIL.BENHALL WATER SUPPLY SCHEME FOR SIZEWELL
ATOMIC POWER STATION.CONTRACT "C"—TREATMENT WORKS AND
PUMPING STATION.

The Blyth Rural District Council invite TENDERS from public works contractors for the CONSTRUCTION of the ABOVE WORKS, comprising a Two-storey Pumping Station carrying a 20,000-gallon Steel Wash-water Tank on the Roof, a Reinforced Concrete Filter, Cast-Iron Rising Mains from two Boreholes, and ancillary works.

Tender documents and Drawings may be obtained between 5th MAY and 16th MAY, 1960 at the Offices of the Engineer, MESSRS. B'NIE, DEACON AND GOURLEY, Artillery House, Artillery Row, Westminster, S.W.1, on payment of a cheque for £10 made payable to the Blyth Rural District Council, which amount will only be refunded on receipt of a bona-fide Tender.

Tenders, in plain sealed envelopes endorsed "Tender for Benhall Treatment Works," must be delivered at my Office before Noon on MONDAY, 30th MAY, 1960.

The Council do not undertake to accept the lowest or any Tender and will not defray any expenses in connection with tendering, but tenderers must make themselves fully acquainted with the site and conditions of work. Tenders are called for on the understanding that no Tender can be accepted unless and until Ministry approval for the scheme has been obtained.

J. L. LILLIE,
Clerk to the Rural District Council.

Council Offices,
Rendham Road,
Saxmundham,
Suffolk.

CONTRACTS

COUNTY BOROUGH OF TYNEMOUTH.

BOROUGH SURVEYOR'S DEPARTMENT.

PLANT.

TENDERS are invited for the SUPPLY of the FOLLOWING:—

(1) 2½-ton Diesel Road Roller.
(2) 2-foot Portable Compressor.

Tender Forms and details may be obtained from the Borough Surveyor, 16 Northumberland Square, North Shields.

Tenders, enclosed in the special endorsed envelope provided, and bearing no mark indicative of the tender, should be delivered to the Borough Surveyor's Office not later than 10 a.m. on FRIDAY, 27th MAY, 1960.

FRED. G. EGNER,
Town Clerk.

METROPOLITAN BOROUGH OF GREENWICH.DUTCH ALMSHOUSES—CHARLTON CHURCH LANE,
S.E.7.

Applications are invited from those willing to TENDER for the EXECUTION OF WORKS, including the PROVISION of ADDITIONAL SANITARY ACCOMMODATION and REDECORATION, to provide 27 UNITS OF ACCOMMODATION in TWO BLOCKS at the ABOVE.

Plans may be inspected and other particulars obtained at the Office of the Borough Engineer and Surveyor.

Selected applicants will be notified by post and will be supplied with Bills of Quantities and other documents required to enable them to tender.

Tenders will be required to sign, or to refuse to sign, a certificate declaring that they are not parties to any scheme or arrangements with other tenderers in respect of the amount of, or the adjustment of, their Tender. The full wording of the certificate may be obtained from the undersigned.

Applications must reach the Borough Engineer and Surveyor at the Town Hall by Noon of 17th MAY, 1960, and must include details of similar work undertaken recently.

G. C. TURK,
Town Clerk.

Town Hall,
Greenwich, S.E.10.
April, 1960.

BOROUGH OF PRESTWICH.

EXTERNAL PAINTING OF CORPORATION HOUSES.

TENDERS are invited for the EXTERNAL PAINTING of 262 CORPORATION HOUSES.

The Corporation's General Conditions of Contract may be inspected, and the Specifications and Form of Tender obtained on application to the Borough Engineer, Town Hall, Prestwich, upon payment of Five Guineas, which will be refunded on receipt of a bona-fide Tender and return of all documents.

Tenders, endorsed "House Painting," must be received by the undersigned not later than 21st MAY, 1960.

The Corporation does not bind itself to accept the lowest or any Tender.

C. A. CROSS,
Town Clerk.

Town Hall,
Prestwich,
Lancs.

April, 1960.

BOROUGH OF HARROGATE.

PETROL TANKS AND PUMPS.

UNDERGROUND PETROLEUM INSTALLATION AT
CLARK ROAD DEPOT.

TENDERS are invited for the SUPPLY, FIXING and CONNECTING UP of the FOLLOWING ITEMS:—

One 1,000-gallon Single-compartment Motor Spirit Storage Tank.

One 1,000-gallon Single-compartment Derv Storage Tank.

One 500-gallon Motor Spirit Storage Tank.

Two Electric Pumps for Motor Spirit.

One Electric Pump for Diesel Fuel.

Specifications and Forms of Tender may be obtained from the undersigned. Tenders must be received not later than 9 a.m. on MONDAY, 23rd MAY, 1960. The lowest or any Tender will not necessarily be accepted.

C. E. FELLOWS,
Borough Engineer.

Municipal Offices,
Harrogate.

28th April, 1960.

BOROUGH OF HARROGATE.

STREET LIGHTING BUILDING.

The HARROGATE CORPORATION invites TENDERS for the BUILDING WORKS of a TWO-STORY BUILDING (22ft. x 42ft. x 21ft. to eaves) in connection with the above (all trades except steelwork and roofing).

The work entails approx. 300 sq. yd. of 5in. reinforced concrete flooring, 250 sq. yd. granolithic screed to first floor, 90 sq. yd. of mastic asphalt, 350 sq. yd. of 1½in. cavity walling, glazing and joinery, all in cladding to a steel-framed building.

Specifications and Forms of Tender may be obtained from the undersigned. Tenders must be received not later than 9 a.m. on MONDAY, 23rd MAY, 1960. The lowest or any Tender will not necessarily be accepted.

C. E. FELLOWS,
Borough Engineer.

Municipal Offices,
Harrogate.

25th April, 1960.

CITY OF SALFORD.PROPOSED PUBLIC TOILETS AT ORDSALL PARK,
TRAFFORD ROAD, SALFORD, 5.

FIRM-PRICE TENDERS are invited for the PROPOSED PUBLIC TOILETS at Ordsall Park, Salford.

Conditions of Contract and Drawings may be inspected at, and Bill of Quantities and Form of Firm-price Tender obtained from, the City Engineer and Surveyor's Department, Town Hall, Salford, 5, on payment of a deposit of £2 2s., which will be returned on submission of a bona-fide Firm-price Tender not subsequently withdrawn.

Tenders, in plain sealed envelopes, sealed in the envelope provided, and bearing no mark or identification, must be forwarded to the undersigned so as to be received not later than 12 Noon on MONDAY, 13th June, 1960.

The Council does not bind itself to accept the lowest or any Firm-price Tender.

R. RIBBLEDALE THORNTON,
Town Clerk.

CONTRACTS

COUNTY BOROUGH OF BRIGHTON.
WATER DEPARTMENT.SOMPTING PUMPING STATION TO SOMPTING
BY-PASS.

SUPPLY OF SPUN-IRON PIPES, ETC.

TENDERS invited for the SUPPLY and DELIVERY of approx. 770 lin. yd. of 21in. dia. and 810 lin. yd. of 15in. dia. FLEXIBLE JOINTED SPUN-IRON PIPES and approx. 11 Tons of SPECIAL CASTINGS and FITTINGS.

Conditions of Contract, Schedule and Tender documents from Waterworks Engineer, 12 Bond Street, Brighton.

Tenders, enclosed in plain sealed envelopes not bearing any name or mark indicating the sender, and endorsed "Tender for Supply of Pipes, Sompting," to be delivered to me before 30th MAY, 1960.

W. O. DODD,
Town Clerk.

Town Hall,
Brighton, 1,
May, 1960.

COUNTY BOROUGH OF BRIGHTON.
WATER DEPARTMENT.MAINLAYING—SOMPTING PUMPING STATION
TO SOMPTING BY-PASS.

FIXED-PRICE TENDERS invited for the LAYING and JOINTING of approx. 770 yd. of 21in. dia. and 810 lin. yd. of 15in. dia. FLEXIBLE JOINTED SPUN-IRON PIPES and SPECIALS between Sompting Pumping Station and Sompting By-pass. All Spun-iron Pipes and Special Castings will be provided near the site by the Corporation.

Conditions of Contract, Specification and Tender documents obtainable from Waterworks Engineer, 12 Bond Street, Brighton, on depositing £3 3s., which will be refunded on receipt of a bona-fide Tender and return of all documents supplied.

Tenders, enclosed in plain sealed envelopes not bearing any name or mark indicating the sender, and endorsed "Pumping and Contact Mains, Sompting," to be delivered to me before 30th MAY, 1960.

The Corporation do not bind themselves to accept the lowest or any Tender.

W. O. DODD,
Town Clerk.

Town Hall,
Brighton, 1,
May, 1960.

COUNTY BOROUGH OF
MIDDLESBROUGH.

ERECTION OF:

- (a) 29 AND 30 HOUSES AT EASTERIDE (GROUPS 24 AND 25).
- (b) 36 FLATS AT ST. HILDA'S (SECTION IV).

TENDERS are invited for the ABOVE WORKS. Bills of Quantities from Borough Engineer, deposit Two Guineas in each case.

Tenders to be received by the TOWN CLERK on or before MONDAY, 30th May, 1960.

COUNTY BOROUGH OF BOLTON.

TENDERS invited for SUPPLY of FIRE SERVICE UNIFORMS and FOOTWEAR. Details from CHIEF FIRE OFFICER, Fire Station, Bolton, to whom Tenders should be delivered by 31st MAY, 1960.

CITY OF BATH.
KINGSMOOR REDEVELOPMENT.

DEMOLITION AND SITE CLEARANCE OF THE WAR-DAMAGED HOLY TRINITY CHURCH AND SCHOOL HOUSE, JAMES STREET WEST, BATH.

TENDERS are invited for the DEMOLITION and SITE CLEARANCE OF THE WAR-DAMAGED HOLY TRINITY CHURCH AND SCHOOL HOUSE, James Street West, Bath.

Further particulars and Contract documents may be obtained from the Office of W. HARTLEY, A.M.I.C.E., City and Waterworks Engineer, Guildhall, Bath, on payment of a deposit of One Guinea, which will be refunded on receipt of a bona-fide Tender.

Tender, in a plain sealed envelope endorsed "Tender for the Demolition and Site Clearance of Holy Trinity Church and School House, Planning Committee," must be returned to the Town Clerk, Guildhall, Bath, not later than WEDNESDAY, 25th May, 1960.

The Council does not bind itself to accept the lowest or any Tender.

JARED E. DIXON,
Town Clerk.

Guildhall,
Bath.

CITY OF LIVERPOOL.

TENDERS invited for SUPPLY and ERECTION of a PASSENGER LIFT at WESTMINSTER HOUSE, Liverpool, 4.

Documents from City Engineer and Surveyor, Municipal Buildings, Liverpool, 2.

Tenders returnable by 7th JUNE, 1960.

THOMAS ALKER,
Town Clerk.

URBAN DISTRICT COUNCIL OF
KIRKBY-IN-ASHFELD.

KIRKBY MILL OUTFALL SEWER.

CONTRACT K.4.

TENDERS are invited for the ABOVE WORK, which includes the LAYING of about 130 yd. of 15in. IRON SEWER, 90 yd. of 24in. CONCRETE SEWER, and 50 yd. of 27in. CONCRETE SEWER, together with Manholes, Storm Overflows, River Outfall, etc., in the vicinity of Kirkby Mill, within 1/2-mile of the Sewage Disposal Works.

Tendering documents (including Drawings) are obtainable from MESSRS. W. H. RADFORD AND SON, Consulting Engineers, 57 Goldsmith Street, Nottingham, on receipt of a crossed cheque for Two Guineas, payable to Kirkby-in-Ashfield U.D.C. The deposit will be returnable when a bona-fide Tender has been submitted and all documents (except a duplicate copy of the Bills of Quantities) have been returned.

Any inquiries should be made to the Consulting Engineers.

Tenders, in plain sealed envelopes endorsed "Tender for Kirkby Mill Outfall Sewer," are to be delivered to my Office not later than First Post on WEDNESDAY, 8th June, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

E. J. THOMAS,
Clerk of the Council.

Public Offices,
Kirkby-in-Ashfield,
Nottingham.
3rd May, 1960.

CONTRACTS

BOROUGH OF BRIDGWATER.
CONSTRUCTION OF 15IN. DIA. PRECAST
CONCRETE SEWER FROM BATH ROAD RHINE.

TENDERS are invited for the LAYING of approx. 74 lin. yd. of 15in. dia. PRECAST CONCRETE SPIGOT and SOCKET PIPES, ONE PRECAST CONCRETE MANHOLE, and all incidental works.

The Drawings and General Conditions of Contract may be inspected at the Offices of the Borough Engineer, Town Hall, Bridgwater, from whom the Specification, Bill of Quantities and Form of Tender may be obtained on payment of a deposit of Two Guineas, which will be refunded on receipt of a bona-fide Tender and the return of all documents.

Tenders, in plain sealed envelopes, endorsed "Tender for 15in. Diameter Sewer—Bath Road Rhine," are to be delivered to the undersigned not later than 10 a.m. on THURSDAY, 19th May, 1960.

The Council does not bind itself to accept the lowest or any Tender.

H. A. CLIDERO,
Town Clerk.

Town Hall,
Bridgwater,
April, 1960.

BOROUGH OF EVESHAM.

REFUSE COLLECTION VEHICLE.

TENDERS are invited for the SUPPLY of One REFUSE COLLECTING VEHICLE of approx. 16 to 25 cu. yd. capacity, having hydraulic and winch-loading facilities, with some form of refuse compaction device, and powered by either a petrol or diesel fuel engine.

Particulars and Conditions may be obtained from the Borough Surveyor, 105 High Street, Evesham, on payment of a deposit of £2 2s., which will be refunded on receipt of a bona-fide Tender, which must be delivered to the undersigned not later than 30th MAY, 1960.

The Council do not bind themselves to accept any Tender.

N. F. DAVIES,
Town Clerk.

Town Clerk's Office,
Evesham,
29th April, 1960.

HUYTON WITH ROBY URBAN DISTRICT
COUNCIL.

DUPLICATION OF SWANSIDE SEWER—STAGE 1.

TENDERS are invited for the CONSTRUCTION of 1,488 lin. yd. of 18in. dia. CONCRETE PIPE SEWER, with Concrete Manholes, from SWANSIDE PUMPING STATION to GLADSTONE AVENUE.

Plans may be inspected, and the Specification and Bill of Quantities may be obtained from the Engineer and Surveyor, Council Offices, Derby Road, Huyton. Tenders must be addressed to the undersigned, in plain sealed envelopes endorsed "Tender for Swanside Sewer," and must be delivered not later than Noon on FRIDAY, 27th May, 1960.

The Council do not bind itself to accept the lowest or any Tender.

D. WILLGOOSE,
Clerk of the Council.

Council Offices,
Derby Road,
Huyton, Lancs.

BLAENAVON URBAN DISTRICT
COUNCIL.

SUPPLY OF DUSTBINS.

TENDERS are invited for the SUPPLY during the period ending 31st May, 1961, of 2,700 2 cu. ft. DUSTBINS, made to B.S.S. No. 752. The letters "B.U.D.C." (not exceeding 1 1/2 in. in size) to be stamped on bin and lid. Delivery to be made to the Council's Depot.

Tenders, in plain sealed envelopes endorsed "Tender for Dustbins," should reach me not later than 24th MAY, 1960.

The Council does not bind itself to accept the lowest or any Tender.

E. HAROLD REES,
Clerk of the Council.

Council Offices,
Blaenavon, Mon.

BOGNOR REGIS URBAN DISTRICT
COUNCIL.

STREET LIGHTING IMPROVEMENTS—PHASE 2.

TENDERS are invited for GROUP "A" and "B" FLUORESCENT STREET LIGHTING INSTALLATIONS in VARIOUS ROADS within the Urban District, comprising the Supply and Erection of approx. 174 Columns (Stanton types 8K1 and 10, Concrete Utilities Highway X, and G.E.C. Brevis 118, as appropriate), the Supply, Fitting and Wiring of approx. 174 G.E.C. Lanterns (4/80, 3/80, 2/80 and 2/40, as appropriate), complete with auxiliary gear, the Removal of Existing Redundant Installations, and all incidental works.

The General Conditions of Contract and Drawings may be inspected, and Tender documents obtained from the Engineer and Surveyor's Department on payment of a deposit of £2 2s., which will be returned on receipt of a bona-fide Tender and documents.

Tenders, in envelopes provided, endorsed "Street Lighting Improvements—Phase 2," should be delivered to the undersigned not later than First Post on FRIDAY, the 3rd June, 1960.

The Council do not undertake to accept the lowest or any Tender.

R. W. J. HILL,
Clerk of the Council.

Town Hall,
Bognor Regis,
A-11, 1960.

CAISTOR RURAL DISTRICT COUNCIL.

TENDERS FOR HOUSING AT CAISTOR.

The above Council invite contractors who are desirous of submitting TENDERS for the ERECTION and COMPLETION of 16 DWELLINGS, together with WELFARE ACCOMMODATION, including Warden's Flat (all in one block) and SITE WORKS, on a site adjacent SOUTH DALE and BY-PASS ROAD, Caistor, to send in their names to the Architects, MESSRS. WM. SAUNDERS AND PARTNERS, of 24 Castle Gate, Newark-on-Trent, Notts., or 57 Uppate, Louth, Lincs., from whom copies of the Specifications and Bills of Quantities and Conditions may be obtained on payment of £3 3s., which will be returned on receipt of a bona-fide Tender.

The Council do not bind themselves to accept the lowest or any Tender received, and acceptance is subject to the approval of the Ministry of Housing and Local Government.

Sealed and endorsed Tenders, on forms supplied, must reach the undersigned not later than 12 Noon on THURSDAY, 9th June, 1960.

C. G. BARR,
Clerk of the Council.
Council Offices,
Caistor, Lincs.
5th May, 1960.

CONTRACTS

LANCASHIRE COUNTY COUNCIL.

TENDERS are invited for the FOLLOWING
CONTRACT—

The Construction of a Prestressed Concrete Footbridge over the River Keer alongside the existing Warton Bridge carrying Class III road Carnforth to Arnside. The footbridge has a span of 64ft. and a width of 6ft.

Plans and contract documents obtainable from COUNTY SURVEYOR, P.O. Box 9, County Hall, Preston, on deposit of £2, which will be refunded only on receipt of a Tender and the return of all documents and Drawings supplied.

Cheque to be made payable to "Lancashire County Council." Fee refundable on receipt of a bona-fide Tender.

Tenders to be received not later than 10 a.m. on FRIDAY, 3rd June, 1960.

COUNTY BOROUGH OF READING.

PRIVATE STREET WORKS—TAMARISK AVENUE
(OFF WHITLEY WOOD ROAD).

TENDERS are invited for CONSTRUCTION of 1,600 sq. yd. (approx.) CARRIAGEWAYS with Surface Water Sewers, at the ABOVE.

General Conditions and Drawings may be inspected, and Bill of Quantities, etc., obtained for fee of Two Guineas (cheques payable to Reading Corporation) at Borough Surveyor's Office (P.O. Box 17), Town Hall, Reading, on deposit of a bona-fide Tender.

Tenders to be delivered to TOWN CLERK, Town Hall, Reading, by 12 Noon on 7th JUNE, 1960.

No Tender is considered unless enclosed in plain sealed envelope endorsed "Tamarisk Avenue," but bearing no indication of sender.

The Corporation do not bind themselves to accept any Tender.

METROPOLITAN BOROUGH OF
CAMBERWELL.

TENDERS invited for REPAINTING approx. 556 STREET LIGHTING COLUMNS and approx. 400 OTHER POSTS.

Tender Forms to be obtained from the BOROUGH ENGINEER AND SURVEYOR, Town Hall, S.E.S. Closing date: WEDNESDAY, 1st June, 1960.

BOROUGH OF ERITH.

HIGHWAYS ACT, 1959—PART IX.

LULLINGSTONE ROAD AND ALBANY ROAD,
ERITH, KENT.

TENDERS are invited for the MAKING-UP of the ABOVE-MENTIONED STREETS, which total some 180 lin. yd. in length and are 30ft. in width. The works include a Hardcore and Tarmac-wearing Carriageway, Artificial Stone paving and approx. 125 lin. yd. of 6in. dia. Surface Water Sewer in Salt Glazed Stoneware Pipes.

Tender documents may be obtained from, and Conditions of Contract and Drawings may be inspected at, the Office of A. HARGREAVES AND PARTNERS, Architects and Surveyors, 17 Crook Log, Bexleyheath, Kent, on payment of a deposit of £2 2s., refundable on receipt of a bona-fide Tender.

Tenders must be on the form provided, enclosed in a sealed envelope endorsed "Tender for Lullingstone Road and Albany Road Private Street Works," and should be delivered to the undersigned not later than 12 Noon on FRIDAY, 20th May, 1960.

The contractor must be prepared to enter into a formal contract and bond with two sureties for the due performance of the Contract.

The Council do not bind themselves to accept the lowest or any Tender.

J. A. CROMPTON,
Town Clerk.

30th April, 1960.

NORHAM AND ISLANDSHIRES RURAL
DISTRICT COUNCIL.

CORNHILL AND DISTRICT WATER SUPPLY.

TENDERS are invited from competent contractors for the LAYING of approx. Five Miles of 6in. to 3in. dia. SPUN-IRON PIPES, with ancillary works, across a RURAL AREA in North Northumberland.

Forms of Tender, Specification and Bills of Quantities may be obtained on or after 11th MAY, 1960, from the Council's Consulting Engineers, MESSRS. WATERHOUSE AND ROUNTHWAITE, 165 Westmorland Road, Newcastle upon Tyne, 4, on payment of a deposit of £5 5s., which sum will be refunded on receipt of a bona-fide Tender and the documents attached thereto.

Conditions of Contract and Drawings may be seen on or after 11th MAY at the Offices of the Consulting Engineers and at the Council Offices, 52 Ravensdowne, Berwick-upon-Tweed, during normal office hours.

Tenders, in plain sealed envelopes endorsed "Cornhill and District Water Supply," but which must not bear any name or mark indicating the sender, must be delivered at my Office not later than 12 Noon on the 26th MAY, 1960.

The Council does not bind itself to accept the lowest or any Tender.

S. ARMSTRONG,
Clerk to the Council.

Council Offices,
52 Ravensdowne,
Berwick-upon-Tweed,
4th May, 1960.

AYLESBURY RURAL DISTRICT COUNCIL.

UPPER WINCHENDON SEWERAGE AND
SEWAGE DISPOSAL.

The above-named Council invite TENDERS from experienced contractors for the CONSTRUCTION of the FOLLOWING WORKS—

- (a) About 160 yd. of 6in. Stoneware and Pitch Fibre Sewers and Manholes.
- (b) Small Sewage Disposal Works, including Settlement Tank, Filter, Irrigation Trenches and ancillary works.

Details of the work can be seen at the Office of the Council's Surveyor, Mr. R. A. CANT, 43 Buckingham Street, Aylesbury, and copies of the Plan, Specification and Bill of Quantities can be obtained from him on deposit of two Guineas (by cheque payable to the Aylesbury Rural District Council). This will be returned on receipt of a bona-fide Tender, not afterwards withdrawn, and the return of all documents loaned to the contractor for the purpose of making his Tender within seven days of a notice informing him that a Tender has been accepted.

Sealed Tenders, endorsed "Upper Winchendon Sewerage," to be delivered to the undersigned, in a plain sealed envelope, not later than TUESDAY, 7th June, 1960.

The lowest or any Tender will not necessarily be accepted.

A. EDGAR TOY,
Clerk of the Council.

43 Buckingham Street,
Aylesbury, Bucks.
May, 1960.

CONTRACTS

COUNTY BOROUGH OF BIRKENHEAD.

ROAD WORKS.

HEATING and PLANING of approx. 27,000 super. yd. and LAYING approx. 6,000 super. yd. of HOT ROLLED ASPHALT on WOODCHURCH ROAD and FORD ROAD, Birkenhead.

Form of Tender and documents from the BOROUGH SURVEYOR, 3 Conway Street, Birkenhead. Deposit £2 2s., returnable on receipt of a bona-fide Tender or return of documents.

Closing date for Tenders—23rd MAY, 1960.

COUNTY BOROUGH OF ROTHERHAM.

PRIVATE STREET WORKS.

WHYBOURNE TERRACE, WHYBOURNE GROVE, PORTLAND TERRACE.

TENDERS are invited from experienced public works contractors for the RECONSTRUCTION of the ABOVE STREETS, the total length of which is 210 lin. yd. The works consist of Excavating and Taking-up of existing Paving, Re-laying new and existing Pitching, Tarmacadam Surfacing, Kerbing and Paving of Footpaths.

Copies of the General Conditions of Contract, Specification, Bills of Quantities, Form of Tender and Drawings may be obtained from E. J. MANSON, B.Eng., A.M.I.C.E., Borough Engineer, Municipal Offices, Howard Street, Rotherham, upon payment of a deposit of £2 2s., which will be returned upon receipt of a bona-fide Tender.

Tenders must be delivered to the undersigned, in the envelope provided, not later than 10 a.m. on MONDAY, 20th June, 1960.

JOHN S. WALL,
Town Clerk.

Municipal Offices,
Howard Street,
Rotherham,
3rd May, 1960.

ROYAL BOROUGH OF KINGSTON-UPON-THAMES.

CONSTRUCTION OF NEW CAR PARKING AREAS AT THE BITTOMS AND ANGLESEA SQUARE, KINGSTON-UPON-THAMES.

TENDERS are invited for the ABOVE WORKS, which consist of Earth Moving, Grading and Forming Ash Surface on the Parking Areas.

Full details from Borough Surveyor, Guildhall, Kingston-upon-Thames, on deposit of Two Guineas, returnable on receipt of bona-fide Tender not subsequently withdrawn.

Tenders to be submitted by First Post, 30th MAY, 1960.

The Corporation do not bind themselves to accept the lowest or any Tender.

A. B. ROGERS,
Town Clerk.

Guildhall,
Kingston-upon-Thames,
3rd May, 1960.

URBAN DISTRICT COUNCIL OF FELTHAM.

EXTENSION TO MORTUARY—SUNBURY ROAD, FELTHAM.

TENDERS are invited for the EXTENSION of the ABOVE BUILDING.

Drawings and Bills of Quantities, Form of Tender and General Conditions of Contract may be obtained from L. J. GRIMSHAW, A.M.I.C.E., L.R.I.B.A., M.I.Mun.E., A.M.I.T.P.I., Lynton House, Hanworth Road, Feltham, on payment of a deposit of £2 2s., which will be refunded on receipt of a bona-fide Tender, together with the return of all loaned documents.

Tenders, in plain sealed envelopes endorsed "Extension to Mortuary," addressed to the Clerk of the Council, Council Offices, Feltham, must be returned on or before MIDDAY, WEDNESDAY, 8th June, 1960.

M. W. COUPE,
Clerk of the Council.

9th May, 1960.

THE URBAN DISTRICT COUNCIL OF FELLING.

SUPPLY AND DELIVERY OF BUILDING MATERIALS.

TENDERS are invited for the SUPPLY and DELIVERY of the UNDERMENTIONED BUILDING MATERIALS and COMPONENTS required for the erection of 19 houses at LEAM LANE ESTATE, Felling, by direct labour—

General Building Materials.
Hardware.
Nails.
Door Linings.
Ledged, Braced and Battened Doors.
Cupboard Units.
Stairs.
Gates and Posts.
Sanitary Goods.
Plumbing Materials.
Compression Fittings.
Glazing Materials.

Particulars of the materials and components, and the approx. quantities thereof required, together with copies of the Terms and Conditions of Contract and Form of Tender may be obtained from the Surveyor of the Council, R. MORTON, Esq., A.R.I.C.S., Council Buildings, Felling, Gateshead, 10.

Tenders, enclosed in plain sealed envelopes, not bearing any name or mark by which the sender can be identified, but endorsed "Tender for Building Materials," must reach the undersigned not later than First Post on FRIDAY, the 20th May, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

JOHN DONKIN,
Clerk of the Council.

Council Buildings,
Felling,
Gateshead, 10.

FARINGDON RURAL DISTRICT COUNCIL.

WATER SUPPLY EXTENSION, WOOLSTONE.

TENDERS will shortly be invited for LAYING 2,300 yd. of 3in. SPUN-IRON WATER MAIN.

Contractors wishing to tender should submit their names to the Council's Engineer and Surveyor (address below) by SATURDAY, 21st May, together with a deposit of £2 2s., when documents will be available.

The Council will not bind themselves to accept the lowest or any Tender, and any acceptance is subject to the approval of the Ministry of Housing and Local Government.

C. D. READ,
Clerk of the Council.

Council Offices,
Market Place,
Faringdon, Berks.
5th May, 1960.

CONTRACTS

BOROUGH OF BEDFORD.

- (i) RING ROAD—KIMBOLTON ROAD TO GOLDINGHAM ROAD.
- (ii) HAYLANDS WAY EXTENSION.

CONSTRUCTION OF ROADS, SURFACE WATER AND FOUL SEWER WORKS.

TENDERS are invited for the CONSTRUCTION of ROADS and SEWERS on the ABOVE SITE. The works include approx.—

- (a) 620 lin. yd. of 39in. dia. S.W. Sewer.
- (b) 555 lin. yd. of 5ft. 6in. x 3ft. Reinforced Concrete S.W. Culvert.
- (c) 1,000 lin. yd. of 9in. F.W. Sewers.
- (d) 22,000 sq. yd. of Two-coat Hot Rolled Asphalt.
- (e) 5,000 sq. yd. of Single Course Tarmacadam and incidental works.

Application for tender documents, accompanied by a deposit of £5 5s., refundable on receipt of a bona-fide Tender, not subsequently withdrawn, are to be made to F. W. DAWKES, Borough Engineer and Surveyor, Newnham House, Horne Lane, Bedford.

The documents will be available on the 11th MAY, after which the Drawings and Conditions of Contract may be inspected at the Borough Engineer's Office.

Tenders, in plain sealed envelopes, endorsed "Ring Road—Kimbolton Road to Goldington Road," must be delivered to the undersigned by 10 a.m. on WEDNESDAY, 1st June, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

G. F. SIMMONDS,
Town Clerk.

Town Hall,
Bedford.

BOROUGH OF HENDON.

COPTHALL PLAYING FIELDS, HENDON.

The Borough Council invites TENDERS for the CONSTRUCTION of approx. 475 lin. yd. of 9in. GLAZED STONEWARE PIPE SOIL SEWER, part in open cut and part in heading, together with Concrete Manholes and incidental works, at COPTHALL PLAYING FIELDS, Hendon.

The Form and Conditions of Tender, Specification and Bills of Quantities will be issued by and Plans may be inspected at the offices of the Borough Engineer and Surveyor, to whom applications for the documents must be made not later than 20th May 1960, accompanied by a deposit of £2 2s., which will be returned on receipt of a bona-fide Tender on the form provided, and not subsequently withdrawn. Cheques should be made payable to Hendon Corporation. Tenders must be received by 3rd JUNE, 1960.

This invitation to Tender is subject to certain terms and conditions, particulars of which will be forwarded to each tenderer.

R. H. WILLIAMS,
Town Clerk.

Town Hall,
Hendon, N.W.4.

BOROUGH OF HOVE.

TENDERS are invited for the DISMANTLING and REMOVAL of the EXISTING LAUNDRY BOILER at the KING ALFRED, Hove, and the INSTALLATION of a NEW MULTI-WATER TUBE VERTICAL STEAM BOILER, suitable for use with the existing heavy oil burner and equipment.

Copies of the Specification and Form of Tender for the Work may be inspected at the Borough Engineer and Surveyor, Town Hall, Hove.

Tenders must be delivered to the undersigned not later than 12 Noon on 30th MAY, 1960.

JOHN E. STEVENS,
Town Clerk.

Town Hall,
Hove,
3rd May, 1960.

EAST ELLOE RURAL DISTRICT COUNCIL.

PAINTING OF WATER TOWERS.

TENDERS are invited for the ABOVE WORK from experienced contractors. Conditions of Contract and Forms of Tender may be obtained from the Water Engineer and Manager at the address below. A deposit of One Guinea is payable which will afterwards be refunded on receipt of a bona-fide Tender not subsequently withdrawn.

Tenders, in plain sealed envelopes endorsed "Painting of Water Towers," should reach the undersigned not later than Noon on SATURDAY, 28th May, 1960.

J. C. PYWELL,
Clerk to the Council.

Mattimore House,
Holbeach,
Spalding, Lincs.

WALSINGHAM RURAL DISTRICT COUNCIL.

FAKENHAM AND HEMPTON SEWERAGE. STAGES II AND III.

CONTRACT NO. 9.

(SECOND ADVERTISEMENT.)

TENDERS are invited, on a Fixed-price Basis, for the WORK REQUIRED in the LAYING of approx. Four Miles of 9in and 6in. dia. CAST-IRON, CONCRETE and GLAZED WARE SEWERS, PRECAST CONCRETE MANHOLES, 4in. and 6in. dia. CAST-IRON RISING MAINS, Three EJECTOR STATIONS, together with other works incidental thereto, in the Parishes of Fakenham and Hempton.

Copies of the Specification and Drawings may be seen by intending contractors at the Council Offices, Baron's Hall, Fakenham, Norfolk, or at the Office of the Engineers, MESSRS. A. P. I. COTTERELL AND SON, at 54 Victoria Street, Westminster, London, S.W.1, on or after the publication of this advertisement. A copy of the Specification, Bills of Quantities and Form of Tender will be forwarded by the Engineers to intending contractors on payment by them of the sum of Five Guineas, which will be returned on receipt of a bona-fide Tender and all the documents.

Tenders, in plain sealed envelopes, on the forms provided, must be delivered, accompanied by the Specification and Prices of Quantities (in separate sealed packets), to the undersigned, and endorsed "Fakenham and Hempton Sewerage—Contract No. 9," not later than 12 Noon on FRIDAY, 10th June, 1960. Contractors will be required to provide securities for the performance of the Contract.

The Council do not undertake to accept the lowest or any Tender.

A. E. KERR'SON,
Clerk to the Council.

Council Offices,
Baron's Hall,
Fakenham, Norfolk.
4th May, 1960.

CONTRACTS

COUNTY COUNCIL OF DURHAM.

TENDERS invited for SUPPLY of the FOLLOWING:
(1) Office Printing for all departments of County Council for year commencing 1st July, 1960.
(2) Engineering Equipment to Durham Technical College.

Details and Forms of Tender, returnable by 27th MAY, 1960, from the undersigned.

G. H. METCALFE,
Director of Education.

Shire Hall,
Durham,
2nd May, 1960.

STAFFORDSHIRE COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

APPROVED LIST OF CONTRACTORS.

The County Council have approved lists of contractors for Building, Electrical, Heating and Maintenance work.

Contractors desirous of being added to one or more of these lists should write for Forms of Application to the County Architect, Green Hall, Lichfield Road, Stafford, not later than 21st MAY, 1960.

Contractors already on the approved lists do not have to make further application.

T. H. EVANS,
Clerk of the County Council.

BOROUGH OF MIDDLETON.

PRIVATE STREET WORKS—MIRFIELD DRIVE (PART).

TENDERS are invited for the MAKING-UP of TWO SECTIONS of MIRFIELD DRIVE, involving the Construction of 390 sq. yd. of Carriageway, 320 sq. yd. of Footways, and ancillary works.

Plans may be inspected during normal office hours, and copies of the Conditions of Contract, Specification, Bill of Quantities and Form of Tender may be obtained from the Borough Engineer and Surveyor, Town Hall, Middleton, upon deposit of £2 2s., which will be refunded on receipt of a bona-fide Tender.

Tenders, in plain sealed envelopes endorsed "P.S.W.—Mirfield Drive," must be delivered to the undersigned not later than Noon on SATURDAY, 21st May, 1960.

The Council do not bind itself to accept the lowest or any Tender.

F. JOHNSTON,
Town Clerk.

Town Hall,
Middleton, Lancs.
29th April, 1960.

BOROUGH OF GLOSSOP.

PROPOSED MODERNISATION OF WOOD'S BATHS.

TENDERS are invited for the COMPLETE RECONSTRUCTION and MODERNISATION of the EXISTING BATHS, including Structural Alterations, Removal of Existing Cubicles, Erection of a New Spectators' Gallery, Construction of New Cubicles, Drainage and Services and General Repairs and Decoration.

Specification, Bills of Quantities and Form of Tender may be obtained from, and Plans inspected at, the Borough Surveyor's Department, Municipal Buildings, Glossop.

Tenders, in plain sealed envelopes endorsed "Modernisation Scheme, Wood's Baths," to be delivered to the undersigned not later than First Post on WEDNESDAY, 8th June, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

I. ARTHUR PUGH,
Town Clerk.

Municipal Buildings,
Glossop,
April, 1960.

BOROUGH OF LEYTON.

TO TAILORS AND OUTFITTERS.

TENDERS are invited for the SUPPLY of UNIFORMS for Council Employees.

Forms of Tender may be obtained on application to the undersigned, and samples of cloth of existing uniforms can be inspected between the hours of 10 a.m. and 5 p.m.—Mondays to Fridays only.

Tenders must be enclosed in a plain sealed envelope endorsed "Tender for Supply of Uniforms," and delivered, addressed to me, not later than 12 Noon on MONDAY, 27th June, 1960. No name or mark indicating the sender should be shown on the outside of the envelope.

The Council do not bind themselves to accept the lowest or any Tender.

D. J. OSBORNE,
Town Clerk.

Town Hall,
Leyton, E.10.

BOROUGH OF MITCHAM.

IMPROVEMENT AT JUNCTION OF TAMWORTH LANE AND GROVE ROAD.

TENDERS are invited for the CONSTRUCTION of a ROUNDABOUT and OTHER ROAD WORKS at the Junction of Tamworth Lane and Grove Road, Mitcham.

Form of Tender Bill of Quantities and other documents may be obtained from the Borough Engineer, Town Hall, Mitcham, at whose Office the General Conditions of Contract may be inspected.

Tenders must be forwarded, in the envelope provided, so as to reach the undersigned not later than First Post on THURSDAY, 2nd June, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

R. H. WHITE,
Town Clerk.

Town Hall,
Mitcham, Surrey,
2nd May, 1960.

CANNOCK URBAN DISTRICT COUNCIL.

SEWAGE WORKS EXTENSIONS.

The Council will shortly commence work upon the CONSTRUCTION of SEWAGE WORKS EXTENSIONS, comprising Detritus Channels, Two Reinforced Concrete Tanks 60ft. dia. and 15 ft. deep, Four 95ft. dia. Filters, and one Pump-house, together with the usual ancillary Sewers and Mains, etc.

Civil engineering contractors experienced in this class of work and who wish to be placed on the Council's list of selected tenderers are asked to submit relevant particulars of works carried out by them to E. LOMAX, A.M.I.C.E., M.I.Mun.E., Engineer and Surveyor, at the undermentioned address, not later than 18th MAY, 1960.

H. C. ALLEN,
Clerk of the Council.

Council House,
The Green,
Cannock, Staffs.
29th April, 1960.

CONTRACTS

SOMERSET COUNTY COUNCIL.

BATH-LINCOLN TRUNK ROAD, A.46.

PROPOSED IMPROVEMENT
BUTCHER'S WOOD-SWAINSWICK.

TENDERS are invited for approx. 125,000 cu. yd. of BULK EXCAVATION and approx. 3,000 lin. yd. of STONE-FILLED SURFACE WATER DRAINS at the ABOVE IMPROVEMENT.

The Drawings may be inspected at the Offices of the County Surveyor, County Hall, Taunton, and the Divisional Highway Surveyor, 8 Cleveland Place East, Bath, during ordinary office hours.

Copies of the Form of Tender, Conditions of Contract, Specification, Bill of Quantities and Site Plan may be obtained from the County Surveyor, County Hall, Taunton, upon payment of a deposit of Two Pounds, which will be returned on receipt of a bona-fide Tender. Cheques must be crossed and made payable to the Somerset County Council.

Tenders, to be delivered or sent by Post, must reach the Clerk of the County Council, County Hall, Taunton, not later than Noon on WEDNESDAY, 8th June, 1960.

Tenders will not be considered unless sent in a plain sealed envelope provided for the purpose, bearing the words "Tender for Bulk Excavation and Surface Water Drainage, Swainswick," and must not bear any name or mark indicating the sender.

The County Council do not bind themselves to accept the lowest or any Tender.

J. H. H. WILKES,

County Surveyor.

County Hall,
Taunton.

HAMPSHIRE COUNTY COUNCIL.

ROADS AND BRIDGES.

TRUNK ROAD, A.30—HOOK.

TENDERS are invited for the CONSTRUCTION of approx. 200yd. of SECOND CARRIAGEWAY and the WIDENING to 24ft. of a further 900yd. of the EXISTING ROAD, West of the Crooked Billet Public House.

The Works include Excavation, Filling, Surface Water Drainage, Road Foundation in Gravel, Lean-mix Concrete and Bitumen Macadam, Kerbing and Channelling, together with incidental and ancillary Works.

The form of Contract will include no price variation conditions. Applications must reach the undersigned not later than the 16th MAY, 1960.

H. N. JENNER,

County Surveyor.

The Castle,
Winchester.

COUNTY BOROUGH OF DONCASTER.

BRIDGE TO PROPOSED WHOLESALE MARKET.

CONTRACT NO. 54.

TENDERS are invited for the CONSTRUCTION of the 24in. dia. BORED PILES, the REINFORCED CONCRETE PIERS, and the APPROACH ROADS (400 lin. ft.) to the ABOVE BRIDGE.

The Plans may be inspected during normal office hours at the Offices of the Borough Surveyor, 2 Priory Place, Doncaster. Copies of the Specification, Bills of Quantities and Forms of Tender may be obtained from the above address upon payment of £3 3s., this deposit being returnable upon the receipt of a bona-fide Tender.

Sealed Tenders, endorsed "Bridge to Proposed Wholesale Market," to be delivered to the undersigned not later than 10 a.m. on SATURDAY, 11th June, 1960.

The Council does not bind itself to accept the lowest or any Tender.

H. R. WORMALD,

Town Clerk.

BOROUGH OF NUNEATON.

ACCESS ROAD OFF CHURCH STREET—PART I.

TENDERS are invited for the CONSTRUCTION of about 1,800 sq. yd. of CONCRETE ROAD and CAR PARK, and incidental Drainage and Lighting Works, on the ABOVE SITE.

The Conditions of Contract and Specification can be inspected, and the Bills of Quantities and Drawings may be obtained from the Borough Surveyor, Council House, Nuneaton, on payment of a deposit of £2 2s., returnable on receipt of a bona-fide Tender not subsequently withdrawn.

Tenders to be delivered to the undersigned not later than 10 a.m. MONDAY, 30th May, 1960.

The Council does not bind itself to accept the lowest or any Tender.

A. A. CRABTREE,

Town Clerk.

Council House,
Nuneaton.

May, 1960.

CITY OF WINCHESTER.

STREET LIGHTING.

ALRESFORD ROAD (A.31) AND BAR END ROAD (C.461).

TENDERS are invited for the ERECTION complete of approx. 50 LIGHTING POINTS involving 25ft. STEEL and 16ft. CAST-IRON COLUMNS, for 250-W, 120-W and 80-W Colour Corrected Mercury Lighting. Specification, Bill of Quantities and Form of Tender may be obtained from the City Engineer and Surveyor, Guildhall, Winchester, at whose Office Plans may be inspected. A deposit of £2 2s. will be required, but will be refunded on receipt of a bona-fide Tender.

Tenders, in a plain envelope endorsed "Alresford Road Lighting," should be addressed to the undersigned not later than First Post on WEDNESDAY, 8th June, 1960.

R. H. McCALL,

Town Clerk.

Guildhall,
Winchester.

3rd May, 1960.

WITHAM URBAN DISTRICT COUNCIL.

SURFACE DRESSING PROGRAMME, 1960.

TENDERS are invited for the SURFACE DRESSING of approx. 15,600 sq. yd. of CARRIAGEWAY within the ABOVE URBAN DISTRICT.

Copies of the Specification, Form of Tender, etc., may be obtained from the Engineer and Surveyor, Council Offices, Collingwood Road, Witham, Essex.

Tenders, in plain sealed envelopes, endorsed "Surface Dressing," must be returned to the undersigned by 12 Noon on TUESDAY, 31st May, 1960.

H. CROOK,

Clerk of the Council.

Council Offices,
Collingwood Road,
Witham, Essex.

5th May, 1960.

CONTRACTS

KENT COUNTY COUNCIL.

TENDERS are invited from road contractors, by not later than FRIDAY, 27th May, 1960, addressed to the CHAIRMAN of THE ROADS COMMITTEE, County Hall, Maidstone, for SURFACE WATER DRAINAGE, the COMPLETION of CARRIAGEWAYS, FOOTPATHS and incidental works at the FOLLOWING PRIVATE STREETS—

Spring Head Road, Kemsing (length 157yd.).
Albert Road, Capel-le-Ferne (length 125yd.).
Avery Way, Aithalows (length 1,300yd.).

Drawings and Conditions of Contract may be inspected and Specifications and Bills of Quantities obtained from the COUNTY SURVEYOR, County Hall, Maidstone, on payment of £2 (each), returnable upon receipt of bona-fide Tenders.

DERBYSHIRE COUNTY COUNCIL.

BRIDGES AND HIGHWAYS DEPARTMENT.

PRIVATE STREET WORKS.

STEVEN'S LANE (PART), GRANGE AVENUE AND LAWRENCE AVENUE, BREASTON.

TENDERS are invited for LEVELLING, PAVING, KERBING, DRAINING and SURFACING the ABOVE STREETS. The works include 540yd. 9in. x 6in. Surface Water Drainage, 1,010yd. Kerbing and 4,360 super. yd. Carriageway and Footpath Surfacing in Coated Macadam.

Plans and Conditions of Contract may be seen, and Bills of Quantities, Form of Tender, and Specification obtained from the County Surveyor, County Offices, Matlock, Derbyshire, on payment of a deposit of £2, cheques payable to Derbyshire County Council. Deposit will be refunded to bona-fide tenderers on signing Contract or notification of non-acceptance.

Tenders, in plain sealed envelopes endorsed "P.S.W. B. and H." to be delivered to the undersigned by 31st MAY, 1960.

The County Council does not bind itself to accept the lowest or any Tender.

D. G. GILMAN,

Clerk of the County Council.

County Offices,
Matlock.

BOROUGH OF CROSBY.

PRIVATE STREET WORKS.

(a) NAZEBY AVENUE.
(b) BURBO BANK ROAD NORTH, THE SERPENTINE, THE SERPENTINE NORTH.

TENDERS are invited for the SURFACING and PAVING of the ABOVE ROADS, comprising the following works—

Section (a) 550 sq. yd. of Macadam, 440 sq. yd. of Concrete Paving, and approx. 200 lin. yd. of Kerbs and Channels.

Section (b) 1,800 sq. yd. of Sand Carpet, 1,920 sq. yd. of Concrete Paving, and approx. 430 lin. yd. of Kerbs and Channels.

Copies of Specification, Bill of Quantities and Form of Tender for each or both sections may be obtained on application to the Borough Engineer and Surveyor at the address below, on payment of a deposit of £2 2s., which will be returned on receipt of a bona-fide Tender, not subsequently withdrawn. Drawings of the work may be inspected at the Borough Engineer's Office.

Sealed Tenders, marked "Private Street Works," to be delivered to the undersigned not later than Noon on 24th MAY, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

HAROLD O. ROBERTS,

Town Clerk.

Town Hall,
Waterloo,

Liverpool, 22.

CITY OF CARLISLE.

RIVER EDEN SCHEME—STAGE II.

MAINLAYING—CONTRACT NO. 11.

TENDERS are invited from contractors experienced in similar work, for the LAYING of Two Miles of 18in., 3½ Miles of 15in. Two-thirds of a Mile of 12in., and One Mile of 8in. dia. CONCRETE LINED CAST-IRON PIPES, etc., in or near the City of Carlisle.

Copies of the Tender documents may be obtained from the Consulting Engineers, MESSRS. ROFE AND RAFFETY, 9 Brewer's Green, Buckingham Gate, London, S.W.1, on payment of a deposit of Two Guineas (by cheque only, payable to the Carlisle City Council), which will be refunded on receipt of a bona-fide Tender and the return of all documents.

Contract Drawings and Specifications may be inspected at the Offices of the Engineers at the above address or at the Office of the City Engineer, Carlisle. Prints of any of the Contract Drawings will be supplied by the Engineers on application from intending contractors, accompanied by a payment of 3s. for each Drawing. Such payment will not be returnable and must not be included in the deposit cheque.

Tenders, on the forms supplied, with particulars of experience, enclosed in the special envelope provided, suitably endorsed, must reach the undersigned not later than 12 Noon on MONDAY, 13th June, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

H. D. A. ROBERTSON,

Town Clerk.

CUCKFIELD RURAL DISTRICT COUNCIL.

(AMENDED ADVERTISEMENT.)

CONTRACT NO. 147.

ARDINGLY SEWAGE DISPOSAL WORKS.

TENDERS are invited for the CONSTRUCTION of a SEDIMENTATION TANK, TWO FILTER BEDS, SAND FILTER, PUMPING STATION, SLUDGE DRYING BEDS, STORMWATER and other TANKS, at Ardingly, Sussex.

Specification, Bills of Quantities and Form of Tender can be obtained from, and the Drawings inspected at, the Office of MR. A. HUTCHINGS, M.B.E., M.I.Mun.E., F.R.S.H., Engineer and Surveyor, on payment of a deposit of Two Guineas, which will be refunded on receipt of a bona-fide Tender, together with all documents.

Tenders, accompanied by all documents, enclosed in a plain envelope, sealed and endorsed "Tender for Sewage Works," should be addressed and delivered to the undersigned not later than Noon on MONDAY, 20th June, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

J. A. CHURCHILL,

Clerk of the Council.

Rural District Council Offices,
Boltro Road,

Haywards Heath,

Sussex.

28th April, 1960.

CONTRACTS

PEMBROKESHIRE COUNTY COUNCIL.

PEMBROKESHIRE POLICE.

TENDERS are invited for the SUPPLY of UNIFORM CLOTHING, including Shirts, Leather Gloves and Helmets for the Force, for the year 1961.

Full particulars and Forms of Tender can be obtained from the CHIEF CONSTABLE, County Police Headquarters, Haverfordwest, to whom Tenders must be submitted before SATURDAY, 25th June, 1960.

BOROUGH OF STOCKTON-ON-TEES.

HIGHWAYS ACT, 1959—CODE OF 1992.

PRIVATE STREET WORKS—BUTTERMERE ROAD.

The COUNCIL invite TENDERS for the MAKING-UP of the ABOVE STREET.

The work involves the Making Good of existing Concrete Carriageway with Bituminous Macadam and Covering with approx. 625 sq. yd. of ½in. thick Cold Asphalt, together with Providing and Re-laying 2½in. Precast Concrete Flags and Construction of Car Crossings to Footpaths.

Contract documents may be obtained and Drawings inspected at the Borough Engineer's Office, Victoria Buildings, High Street, Stockton-on-Tees, on payment of a deposit of £2 2s., which will be returnable after the receipt of a bona-fide Tender.

Tenders must be enclosed in a special envelope issued with the contract documents, and delivered to the undersigned not later than 12 Noon on FRIDAY, the 27th May, 1960.

JOHN B. HAWORTH,

Town Clerk.

Barclays Bank Chambers,
Stockton-on-Tees.

BOROUGH OF WIDNES.

CONTRACT No. 384—PRIVATE STREET WORKS IN CAREY STREET and SURFACING OF ROADS at FREDERICK STREET HOUSING SITE, comprising approx. 220 sq. yd. of Pitched Carriageway, 75 lin. yd. of Kerbing, 175 sq. yd. of Flagging, 75 sq. yd. Bituminous Surfacing, and ancillary works.

CONTRACT No. 385—DITTON NEIGHBOURHOOD UNIT, Portion 6, Part 2—ROADS and SEWERS, comprising approx. 5,000 sq. yd. of 6in. Concrete Carriageway, 1,500 sq. yd. of 7in. Concrete Carriageway, 440 lin. yd. 12in. S.G.W. Sewer, 900 lin. yd. 9in. S.G.W. Sewer, and ancillary works.

Specifications, Bills of Quantities and Forms of Tender may be obtained from the Borough Engineer, Town Hall, Widnes, on payment of a deposit of £2 2s. for each contract, returnable on receipt of a bona-fide Tender, not subsequently withdrawn.

Tenders, in envelope provided, to the Borough Engineer not later than 12 Noon on THURSDAY, 2nd June, 1960.

FRANK HOWARTH,

Town Clerk.

Town Hall,
Widnes.

May, 1960.

BOROUGH OF WANSTEAD AND WOODFORD.

CONSTRUCTION OF ACCESS ROAD AT ELBURY AND ST. JUDES COURT, VICARAGE ROAD, WOODFORD BRIDGE.

TENDERS are invited for the ABOVE WORK, which consists of approx. 415 sq. yd. of HARCORE and BITUMINOUS MACADAM CARRIAGEWAY, including Scarifying, Excavation and Reshaping, approx. 90 lin. yd. of Concrete Kerbing, and Drainage Works.

Documents from BOROUGH ENGINEER, Municipal Offices, Woodford, E.18, on payment of £2.

Tenders to be returned by 12 Noon, TUESDAY, 31st May, 1960.

BOROUGH OF ALTRINCHAM.

EXTERNAL PAINTING OF 174 COUNCIL HOUSES.

SEPARATE TENDERS are invited for EXTERNAL PAINTING to Six GROUPS of HOUSES containing 12 to 43 houses each.

Specification, General Conditions and Form of Tender may be obtained from the Borough Surveyor, Town Hall, Altrincham.

Tenders, in the envelope provided, are to be returned to the undersigned by Noon, FRIDAY, 27th May, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

E. GRAHAM THOMAS,

Town Clerk.

Town Hall,
Altrincham.

4th May, 1960.

FAREHAM URBAN DISTRICT COUNCIL.

FIXED-PRICE TENDERS are invited for the ERECTION of a SPORTS PAVILION at PARK LANE RECREATION GROUND, Fareham. Documents from the Engineer and Surveyor, Westbury Manor, Fareham, on payment of £2 deposit, returnable on receipt of bona-fide Tender or return of documents.

The Council do not bind themselves to accept the lowest or any Tender.

Tenders to me by MONDAY, 30th May, 1960.

B. W. RANDS,

Clerk to the Council.

"Merton,"
5 Grove Road,
Fareham, Hants.

URBAN DISTRICT COUNCIL OF BEDWORTH.

CONSTRUCTION OF ROADWORKS—WOODLANDS ROAD HOUSING SITE, BEDWORTH.

TENDERS, on a fixed-price basis, are invited from experienced contractors for the FOLLOWING WORKS: Sewers, 1,100yd. 1½in. 6in., 9in. and 12in. Glazed Stoneware.

Manholes, 25.

Road Foundations, 4,900yd. super. Hardcore.

Road Surface, 1,200yd. super. Wetmix and 2½in. Tarmacadam.

Excavation, 500 cu. yd. and 7,500yd. super. of 9in. Top Strip.

Conditions of Contract, Bill of Quantities and Drawings obtainable from the Engineer and Surveyor, Council Offices, High Street, Bedworth, near Nuneaton, upon payment of Two Guineas, which will be returned on receipt of a bona-fide Tender and the return of all documents.

Sealed Tenders, in the envelope provided, to be delivered to the undersigned not later than 9 a.m. on THURSDAY, 2nd June, 1960.

The Council does not bind itself to accept the lowest or any Tender.

S. G. DEEMING,

Clerk of the Council.

CONTRACTS

SURREY COUNTY COUNCIL.

HIGHWAYS AND BRIDGES DEPARTMENT.

TENDERS invited for CONSTRUCTION OF SPRAY PAINTING SHOP with Brick Walls and Precast Concrete Roof Units (floor area 700 sq. ft. approx.) and ancillary works, at COLD BLOW VEHICLE REPAIR DEPOT, Banstead.

Particulars and Forms of Tender, returnable by 28th MAY, 1960, obtainable from COUNTY ENGINEER, County Hall, Kingston-upon-Thames.

BOROUGH OF MAIDSTONE.

CATTLE FENCING AND GATES, MOTE PARK.

TENDERS are invited for the PROVISION and ERECTION of approx 550 lin. yd. of BULWARK FENCING AND GATES.

Specifications and Bills of Quantities may be obtained from the Borough Engineer, Palace Avenue, Maidstone.

Tenders, in plain sealed envelopes endorsed "Mote Park Fencing," must reach the undersigned not later than 10 a.m. on TUESDAY, 31st May, 1960.

The Corporation does not bind itself to accept the lowest or any Tender.

T. SCHOLES,
Town Clerk.

13 Tonbridge Road,
Maidstone.

BOROUGH OF STOURBRIDGE.

RECONSTRUCTION OF GRANGE LANE.

TENDERS are invited for the RECONSTRUCTION of GRANGE LANE (Part), for a length of 95yd. Documents may be obtained from the undersigned on receipt of a deposit of Two Guineas.

Tenders, in plain sealed envelopes, endorsed "Tender—Grange Lane Roadworks," to be sent by registered post to the Town Clerk, Council House, Stourbridge, not later than Noon, FRIDAY, 27th May, 1960.

The Council does not bind itself to accept the lowest or any Tender.

H. W. MORRIS,
B.Sc.(Eng.), A.M.I.C.E.,
Borough Engineer and Surveyor.

Council House,
Stourbridge,
4th May, 1960.

CITY OF ST. ALBANS.

JERSEY FARM ESTATE, MARSHALSWICK.

ROADS AND SEWERS.

TENDERS are invited for the CONSTRUCTION of approx. 3,900 sq. yd. of CONCRETE ROADS, 430 lin. yd. 6in./9in. SURFACE WATER SEWER, 430 lin. yd. 6in. FOUL WATER SEWER, and various ancillary works.

Tender documents may be obtained from, and Plans inspected at, the City Engineer's Office, 16 St. Peter's Street, St. Albans.

Tenders, in the envelopes provided, and bearing no indication of the tender, should be returned to the undersigned not later than Noon on FRIDAY, 3rd June, 1960.

B. V. ENTWISTLE,
Town Clerk.

38 St. Peter's Street,
St. Albans,
Herts.

COVENTRY CORPORATION.

FIRM-PRICE TENDERS are invited for ERECTION of THREE 2-STORY SHOPS in Traditional Construction in SMITHFORD WAY.

Two Guineas deposit by 16th MAY, payable to Coventry Corporation, for documents (refundable on return of documents and receipt of Tender by closing date).

Completed Tenders by 15th JUNE to CITY ARCHITECT, Council House.

PETERBOROUGH JOINT EDUCATION BOARD.

ARTHUR MELLOWS VILLAGE COLLEGE.

HEATING AND HOT WATER SUPPLY INSTALLATION.

TENDERS are to be invited from recognised heating engineers for the CARRYING OUT of the FOLLOWING WORKS:—

- (1) Removal of the existing Four Automatic Stokers and Allied Equipment, the Hot Water Service Boiler and Two Direct Service Cylinders and associated Wiring.
- (2) The Extension of the Three existing C.I. Sectional Heating Boilers from the existing rating of 1,419,000 B.T.U.s. per hour to 1,875,000 B.T.U.s. per hour.
- (3) The Installation of a new Indirect System of Hot Water Supply, Boiler Plant and Calorifier.
- (4) The Installation of Oil-firing Equipment, including Three Modulating and One On/Off Type Oil Burners, together with all associated Thermostatic Controls and Electrical Wiring.
- (5) Several major items of incidental Building Work for which the successful contractor will be responsible.

It is essential that the whole of the new hot water supply installation be in operation by 7th SEPTEMBER, 1960, and the whole of the new heating installation by 1st OCTOBER, 1960. Only contractors capable of maintaining an adequate staff of skilled labour to comply with these completion dates can be considered.

All heating engineers desirous of tendering for the contract are invited to submit their names and particulars, including the value of similar contract or sub-contract works completed recently, together with full details of persons to whom reference may be made in respect of such works. All applications should be submitted to the undersigned not later than 12 Noon on MONDAY, 16th May, 1960.

From the list of applications submitted, the Board will select a panel of contractors who will subsequently be provided with the Specification and Form of Tender, subject to the payment of a deposit of Two Guineas. Thereafter, deposits will be refunded on receipt of a bona-fide Tender which is not withdrawn subsequently, together with the return of all documents.

Tenders, sealed in the special envelope provided for the purpose, endorsed "Tender—Arthur Mellows Village College Heating Installation," must be delivered to the undersigned not later than 12 Noon on MONDAY, 4th July, 1960.

The Board does not bind itself to accept the lowest or any Tender.

LESLIE TAIT,
Chief Education Officer.

Education Offices,
Town Hall,
Peterborough,
May, 1960.

CONTRACTS

BOROUGH OF KEIGHLEY.

PRIVATE STREET WORKS.

OAK BANK AVENUE, OAK BANK GROVE, WESTON STREET, OAKFELD ROAD, HEMSBY STREET, AYLESBURY STREET.

TENDERS are invited for the MAKING-UP of the ABOVE STREETS with TARMACADAM CARRIAGEWAYS, FLAGGED FOOTPATHS, etc. Drawings and General Conditions of Contract may be seen at the Borough Engineer's Office, College Street, Keighley, during normal office hours. Specifications and Bills of Quantities, which must be returned fully priced with the Form of Tender, will be forwarded upon application to the Borough Engineer. Sealed Tenders, on the official forms and the envelopes provided for the purpose, endorsed "Private Street Works," must be delivered to the undersigned not later than 10 a.m. on FRIDAY, the 3rd June, 1960.

H. W. SMITH,
Town Clerk.

Town Hall,
Keighley.

BOROUGH OF KIDDERMINSTER.

STREET LIGHTING.

TENDERS are invited for the ERECTION and WIRING of LAMP GROUP "B" CONCRETE LIGHTING COLUMNS.

Form of Tender, Specification and Conditions of Contract may be obtained from the Borough Engineer and Surveyor, 110 Mill Street, Kidderminster, on payment of a deposit of £2, which will be refunded on receipt of a bona-fide Tender not subsequently withdrawn.

Tenders must be delivered, in the envelope provided, not later than MONDAY, 30th May, 1960.

The Council does not bind itself to accept the lowest or any Tender.

JOHN L. EVANS,
Town Clerk.

Town Hall,
Kidderminster.

BOROUGH OF POOLE.

PRIVATE STREET WORKS AND PUBLIC SEWERAGE, BRANKSOME—GROUP E.

The COUNCIL invite TENDERS for MAKING-UP and SURFACE WATER DRAINING STREETS in the ABOVE GROUP. The total length of the streets is 1½ miles.

Contract documents from the Borough Engineer on payment of Two Guineas deposit.

Tenders to me by 23rd MAY, 1960.

J. G. HILLIER,
Town Clerk.

URBAN DISTRICT COUNCIL OF POTTERS BAR.

EXTERNAL DECORATION OF 100 COUNCIL HOUSES.

TENDERS are invited for the EXTERNAL RE-DECORATION of 100 COUNCIL HOUSES situated:—Mutton Lane—42 Houses. Carpenter Way—56 Houses. 43 Cotton Road. 63 Stafford Gate.

Forms of Tender and Specification may be obtained from the Engineer and Surveyor, Wyllyotts Manor, Darkes Lane, Potters Bar, on payment of a deposit of £2 2s., which will be refunded on receipt of a bona-fide Tender.

Tenders are to be submitted to the Clerk of the Council, in envelopes provided, by Noon on MONDAY, 30th of May, 1960.

W. A. STEVENS,
Clerk of the Council.

Council Offices,
Darkes Lane,
Potters Bar, Middlesex.

IRLAM URBAN DISTRICT COUNCIL.

TENDERS are invited for TARSPraying, LOADING and SPREADING of CHIPPINGS supplied by the Council, and ROLLING of approx. 26,734 sq. yd. of CARRIAGEWAY SURFACE on various ROADS within the Urban District.

Tender, endorsed "Tarspraying," must be delivered to the CLERK of the COUNCIL, Council Offices, Irlam, on the 25th MAY, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

NORTH COTSWOLD RURAL DISTRICT COUNCIL.

LITTLE RISSINGTON SEWERAGE.

The Council invite TENDERS on a fixed-price basis from contractors having experience in similar work for THIS SCHEME, which consists of:—

- (a) Laying of approx. 1,830 lin. yd. of 6in. dia. Spun-Iron and G.S.S. Sewers, together with the Construction of relevant Manholes.
- (b) Construction of a small Screening Chamber at the existing Sewage Disposal Works at Bourton-on-the-Water.
- (c) House Connections.

All in accordance with the Drawings, Specifications, Bills of Quantities and Conditions of Contract prepared by Messrs. W. Herbert Bateman and Partners, of Bathaston, Norwich and Westminster, the Consulting Engineers to the Council.

The Drawings, Specification, Bill of Quantities and General Conditions of Contract will be available for inspection by appointment at the Offices of the Council or at the Bathaston Office of the Consulting Engineers during normal office hours, on and after 16th May, 1960, but technical questions can be dealt with only at the latter office.

Copies of the General Conditions, Specification, Bill of Quantities and Form of Tender will be issued to intending contractors on application to Messrs. W. HERBERT BATEMAN AND PARTNERS, Chesterfield House, Bathaston, Bath, on or after 16th May, 1960. Applications must be accompanied by a deposit of £5 ss., which will be returned upon receipt of a bona-fide Tender, not subsequently withdrawn.

Applications for tender documents must be accompanied with the names and addresses of three engineers under whose direction similar schemes have been carried out by the applicant.

Sealed Tenders, on the form provided in the Bill of Quantities, endorsed "Little Rissington Sewerage Scheme," accompanied by the Bill of Quantities priced in ink, should be posted to reach the undersigned not later than the First Post on MONDAY, 13th June, 1960.

The Council do not bind themselves to accept the lowest or any Tender, and will not be responsible for any expenses incurred by those tendering.

F. KETTLETON,
Clerk to the Council.

Council Offices,
Moreton-in-Marsh, Glos.
5th May, 1960.

CONTRACTS

BOROUGH OF BROMLEY.

PRIVATE STREET WORKS—WALDEN ROAD.

TENDERS are invited for the CONSTRUCTION of the ABOVE, comprising the Laying of 3,570 sq. yd. of 7in. REINFORCED CONCRETE, 376 lin. yd. KERB, 616 sq. yd. A.S. PAVING, 278 sq. yd. TARPAVING, RE-LAYING EXISTING KERBS and PAVING, and ancillary works.

Drawings and Conditions of Contract may be inspected at the Office of the Borough Engineer, Municipal Buildings, Bromley.

Contractors wishing to tender should apply to the Borough Engineer for the Specification, Bills of Quantities and Form of Tender, which should be returned, in the envelope provided, to the undersigned not later than 4th JUNE, 1960.

The Council does not bind itself to accept the lowest or any Tender.

LIONEL KAYE,
Town Clerk.

Municipal Buildings,
Bromley, Kent.

BOROUGH OF EPSOM AND EWELL.

NEW CORPORATION DEPOT—STAGE II.

The CORPORATION invite TENDERS from experienced contractors for the CONSTRUCTION of SURFACE WATER SEWERS, REINFORCED CONCRETE ACCESS ROAD, FLOOR SLAB and BRICK WALL, etc., to complete a LARGE GARAGE BUILDING of approx. 10,000 super. ft.

The Conditions of Contract, Bill of Quantities, Drawings, Form and Conditions of Tender may be obtained from the Office of MR. COLIN COBBETT, A.M.I.C.E., M.I.Mun.E., Borough Engineer and Surveyor, Town Hall, Epsom, during normal working hours upon payment of a deposit of £2 2s., which will be returned if a bona-fide Tender is submitted and not subsequently withdrawn.

Tenders must be delivered to me at the address below not later than 12 Noon on MONDAY, 13th June, 1960, and no Tender will be received and considered unless it is enclosed in a plain sealed envelope endorsed "Corporation Depot—Stage II." This envelope must not bear any name or mark indicating the sender.

The Corporation do not bind themselves to accept the lowest or any Tender.

EDWARD MOORE,
Town Clerk.

Town Hall,
The Parade,
Epsom,
May, 1960.

BOROUGH OF WORKSOP.

FIRM-PRICE TENDERS are invited for the EXTERNAL PAINTING of 550 CORPORATION-OWNED DWELLINGS, in Contracts of not less than 20 Dwellings.

Specifications and Forms of Tender may be obtained from the Borough Engineer, Park House, Worksop.

Tenders, in plain sealed envelopes endorsed "Painting," must reach the undersigned not later than Noon on FRIDAY, 3rd June, 1960.

RUSSELL C. PHAROAH,
Town Clerk.

Town Hall,
Worksop.

BOROUGH OF TAUNTON.

WATER SUPPLY AT KINGSTON-ST-MARY.

FIXED-PRICE TENDERS are invited for the LAYING of approx. 9,200yd. of 9in., 6in. and 4in. SPUN-IRON PIPES, with Tyton Joints.

Form of Tender, Specification and Bill of Quantities may be obtained from W. J. WONNACOTT, M.I.C.E., Engineer and Manager, Fire House, Station Road, Taunton, on payment of a deposit of £2 2s. (by cheque only), payable to the Taunton Corporation, which will be returned upon the receipt of a bona-fide Tender, together with all Contract documents.

Plans may be inspected at the Engineer's office. Tenders to be submitted in plain sealed envelope endorsed "Kingston Water Supply" to the undersigned not later than 10 a.m. on WEDNESDAY, 1st June, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

K. A. HORNE,
Town Clerk.

Municipal Buildings,
Corporation Street,
Taunton.

STROUD URBAN DISTRICT COUNCIL.

TO PUBLIC WORKS CONTRACTORS.

LIGHTPILL FLOOD RELIEF SCHEME.

Firms wishing to TENDER for the ABOVE WORKS are invited to notify the Engineer and Surveyor to the Council by SATURDAY, 28th May, 1960. The works consist of the excavation for laying approx. 100yd. of 36in. dia. pipe, together with ancillary works, the major part to be carried out between Saturday, 23rd July, to Sunday, 7th August, inclusive.

H. S. GIBBONS,
Clerk to the Council.

Council Chambers,
High Street,
Stroud.

BRIDGE-BLEAN RURAL DISTRICT COUNCIL.

ERECTION OF 10 DWELLINGS AT ADISHAM.

TENDERS are invited for the ERECTION of ONE PAIR of TWO-BEDROOM HOUSES and ONE BLOCK of EIGHT FLATS at OAST COTTAGES, Adisham, together with the Provision of External Services within and without the curtilage of the Dwellings.

Copies of the Bills of Quantities and Form of Tender may be obtained from the Council Offices, 41 Old Dover Road, Canterbury, on deposit of a fee of Two Guineas (cheques, postal orders, etc., to be made payable to the Bridge-Blean Rural District Council. The deposit will be refunded only upon receipt of a bona-fide Tender not subsequently withdrawn and 0 documents (Bills of Quantities) lent for the purpose of tendering.

Prints of the Drawings may be inspected either at the Office of the Architect, H. V. GODFREY, A.R.I.B.A., 63 Ox'ord Street, Whitstable, or at the Council Offices during normal office hours.

Tenders, in sealed envelopes endorsed "Houses, Oast Cottages, Adisham," accompanied by the Bills of Quantities and the General Summary, must reach the undersigned not later than 12 Noon on WEDNESDAY, the 8th June, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

I. F. SOILLEUX,
Clerk of the Council.

Council Offices,
41 Old Dover Road,
Canterbury.
6th May, 1960.

CONTRACTS

COUNTY BOROUGH OF SOUTHEAST-ON-SEA.

HOUSING SITE NO. 32—KENILWORTH GARDENS EXTENSION.

Contractors interested in submitting a TENDER for the CONSTRUCTION of ROADS (approx. 400 yd.) and SEWERS at HOUSING SITE NO. 32 (Trescott Drive), and for the EXTENSION OF KENILWORTH GARDENS (approx. 250 yd. Dual Carriageway), and Surface Water Sewer and Incidental Works in connection therewith, should submit their names, together with a deposit of £2, before 16th MAY, 1960, to the Borough Engineer and Surveyor, for inclusion on a list of contractors from whom Tenders will be invited. The deposit will be refunded on receipt of a bona-fide Tender and/or the return of all loaned documents.

Sealed Tenders, addressed to the undersigned and endorsed "Roadworks—Housing Site No. 32 and Kenilworth Gardens Extension, are to be delivered to this office by 5 p.m. on a date to be specified, and no Tender received thereafter will be considered.

No Tender will be received except in the special envelope provided, which shall not bear any name or mark indicating the sender.

The Corporation do not bind themselves to accept the lowest or any Tender.

ARCHIBALD GLEN, Town Clerk.

Municipal Buildings, Southend-on-Sea.

BOROUGH OF WORKSOP.

FIRM-PRICE TENDERS are invited from bona-fide building contractors for the ERECTION of 14 Houses in KILTON HILL ESTATE, Worksop.

Plans may be inspected and copies of Conditions of Contract, Bills of Materials and Forms of Tender may be obtained from the Borough Engineer, Park House, Worksop, upon payment of a deposit of £3 3s.; such deposit will be refunded upon receipt of a bona-fide Tender, together with all documents supplied.

Fully priced Bills of Materials, under separate cover, must accompany Tenders. They will be returned unopened to unsuccessful tenderers.

Tenders must reach the undersigned not later than Noon on FRIDAY, the 3rd June, 1960.

The lowest or any Tender will not necessarily be accepted.

RUSSELL C. PHAROAH, Town Clerk.

Town Hall, Worksop.

BOROUGH OF RUGBY.

CARRIAGEWAYS AND FOOTWAY RESURFACING WORK, 1960/61.

TENDERS are invited from specialist asphalt surfacing contractors for the RESURFACING in HOT ASPHALT, COLD ASPHALT and BITUMEN MACADAM of approx. 37,000 sq. yd. of CARRIAGEWAYS, and the RESURFACING in HOT and COLD ASPHALT of approx. 14,000 sq. yd. of FOOTWAY, and other incidental work.

Form of Tender, Conditions of Contract, Specification and Bill of Materials may be obtained from the Borough Surveyor, Burford House, Rugby, on payment of a deposit of £2 2s., which will be returned only on receipt of a bona-fide Tender not subsequently withdrawn.

Tenders, in the envelopes provided, but with no name or mark to indicate the sender, must be delivered to the undersigned not later than Noon on 31st MAY, 1960.

The Corporation do not bind themselves to accept the lowest or any Tender.

T. L. DUFFY, Town Clerk.

WEST DEAN RURAL DISTRICT COUNCIL.

LYDBROOK SEWERAGE AND SEWAGE DISPOSAL.

CONTRACT NO. 1.

TENDERS, on a FIXED-PRICE BASIS, are invited from experienced public works contractors for the CONSTRUCTION of approx. 2,025 lin. yd. of 12 in. to 36 in. dia. IRON SEWERS, 190 lin. yd. of 9 in. dia. STEEL SEWER, 6,000 lin. yd. of 9 in. dia. CONCRETE and 6 in. dia. GLAZED STONEWARE PIPE SEWERS, together with Concrete Tube Manholes, Sewage Pumping Station, and approx. 3,500 lin. yd. of 9 in. dia. Spun-iron Rising Main and Sewage Disposal Works, comprising Settling Tanks, Bacterial Filters, Humus Tanks, Sludge Drying Beds, Sludge Pumping Station, and other incidental works.

The General Conditions of Contract and Specification, Bills of Materials and Form of Tender may be obtained from the Council's Consulting Engineers, MESSRS. WILLCOX, RAIKES AND MARSHALL, 33 Great Charles Street, Birmingham, 3, where the Drawings may be inspected on or after the 20th May, 1960, upon payment of a deposit of £5 5s. (cheque only, made payable to the Council), which will be refunded on receipt of a bona-fide Tender supported by Priced Bills of Materials, if requested, and the return of all documents.

Tenders, in the envelopes provided, should be delivered to the undersigned not later than 12 Noon on TUESDAY, 12th July, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

A. F. GILLO, Clerk to the Council.

Council Offices, Coleford, Glos.

2nd May, 1960.

NORTH COTSWOLD RURAL DISTRICT COUNCIL.

GUTTING POWER SEWERAGE SCHEME.

TENDERS are invited, on a Fixed-price Basis, for the LAYING of approx. 2,400 lin. yd. of 6 in. dia. G.S.S. SEWERS, together with the CONSTRUCTION of the RELEVANT MANHOLES, and the CONSTRUCTION of a SEWAGE DISPOSAL WORKS.

The Drawings, Specification, Bills of Materials and General Conditions of Contract will be available for inspection at the Office of the Council's Surveyor at Moreton-in-Marsh.

Applications for Tender documents should be made to the Council's Surveyor and must be accompanied by a deposit of Five Guineas, which will be returned upon receipt of a bona-fide Tender not subsequently withdrawn.

Sealed Tenders, on the form provided in the Bill of Materials, endorsed "Gutting Power Sewerage Scheme," accompanied by the Bill of Materials priced in ink, should be posted to reach the undersigned not later than the First Post on MONDAY, 13th June, 1960.

The Council do not bind themselves to accept the lowest or any Tender and will not be responsible for any expenses incurred by those tendering.

F. NETTLETON, Clerk of the Council.

Council Offices, Moreton-in-Marsh, Gloucestershire.

5th May, 1960.

CONTRACTS

STAFFORDSHIRE COUNTY COUNCIL.

TENDERS are invited for the RECONSTRUCTION of a LENGTH of the LONDON-HOLYHEAD TRUNK ROAD as from GALEY RESERVOIRS to FOUR CROSSES.

The work includes Excavation, Kerling, Vibrated Dry Stone Carriageway Foundation, Surface Water Drainage, Hedger, Fences, Walls, Bituminous Macadam Running Surface, and Final Surfacing in Hot Rolled Asphalt.

Copies of the Specification and Bill of Quantities may be obtained from the undersigned on payment of a deposit of £5, which will be refunded on receipt of a bona-fide Tender or on return of the documents before closing date.

Tenders, endorsed "Widening from Galey Reservoirs to Four Crosses," and bearing no indication of the name of the sender, should be returned to the undersigned not later than 12 Noon on the 8th JUNE, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

T. H. EVANS, Clerk of the County Council.

County Buildings, Stafford.

May, 1960.

BOROUGH OF GLOSSOP.

ROAD SURFACING.

TENDERS are invited for ROAD SURFACING of VARIOUS ROADS in the Borough, amounting to 6,190 sq. yd. of COLD ASPHALT and 2,400 sq. yd. of BITUMEN MACADAM (1,700 sq. yd. machine laid and 700 sq. yd. hand laid), together with various Fillings to Channels.

Specification and Forms of Tender may be obtained from the Borough Surveyor, Municipal Buildings, Glossop.

Tenders, in plain sealed envelopes endorsed "Road Surfacing," to be delivered to the undersigned not later than the First Post on THURSDAY, 26th May, 1960.

The Council does not bind itself to accept the lowest or any Tender.

I. ARTHUR PUGH, Town Clerk.

Municipal Buildings, Glossop.

6th May, 1960.

BOROUGH OF RUGBY.

ERECTION OF 16 TWO-STOREY FLATS.

The CORPORATION invite TENDERS for the ERECTION of 16 TWO-STOREY FLATS (for aged persons) on the Post on THURSDAY, 26th May, 1960, in Two Blocks of Eight One-bedroom type Flats.

Tender Form and Bill of Materials may be obtained from the Borough Surveyor's Department, Burford House, Rugby, on payment of a deposit of £2 2s., which will be refunded on receipt of a bona-fide Tender not subsequently withdrawn.

Tenders, in the envelope provided, must be delivered to the undersigned at The Lawn, Newbold Road, Rugby, by First Post on 13th JUNE, 1960.

The Corporation do not undertake to accept the lowest or any Tender.

T. L. DUFFY, Town Clerk.

CITY AND COUNTY OF THE CITY OF LINCOLN.

SURFACE DRESSING.

TENDERS are invited for the SUPPLY and APPLICATION of NECESSARY MATERIALS in SURFACE DRESSING of about 75,000 sq. yd. of ROADS, between the 1st July and 1st September, 1960.

Form of Tender and Specification may be obtained from City Engineer and Surveyor, Silver Street, Lincoln.

Tenders, in plain sealed envelopes, suitably endorsed, must be delivered to undersigned not later than First Post on SATURDAY, 28th May, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

J. HARPER SMITH, Town Clerk.

Town Clerk's Office, Saltersgate, Lincoln.

CITY OF WORCESTER.

GARAGE SITES AT WARNDON HOUSING ESTATE AND BROMWICH ROAD: SITE CONSTRUCTION AND DRAINAGE WORKS.

TENDERS are invited for the CONSTRUCTION of approx. 5,800 sq. yd. of ACCESS ROADS and VEHICLE HANDSTANDING AREAS IN CRUSHED GRANITE AND BITUMEN MACADAM, the LAYING of approx. 1,000 lin. yd. of 6 in. and 9 in. dia. SURFACE WATER SEWERS and approx. 420 lin. yd. of POLYTHENE WATER PIPES, the FIXING of approx. 30 GUILLEY POTS and the CONSTRUCTION of approx. 36 BRICK INSPECTION CHAMBERS and THREE BRICK MANHOLES, together with appurtenant works, on Six Garage Sites at Warndon and One Site in Bromwich Road.

Tender documents are obtainable from the City Engineer, 22 Bridge Street, Worcester, upon deposit of Five Guineas, returnable on receipt of a bona-fide Tender not subsequently withdrawn.

Closing date: THURSDAY, 9th June, 1960.

BERTRAM WEBSTER, Town Clerk.

Guildhall, Worcester.

NORTH COTSWOLD RURAL DISTRICT COUNCIL.

NAUNTON SEWERAGE AND SEWAGE DISPOSAL.

TENDERS are invited, on a Fixed-price Basis, for the LAYING of approx. 2,000 yd. of 6 in. SEWER and the CONSTRUCTION of a SEWAGE PUMPING STATION, RISING MAIN and TREATMENT WORKS for the Village of Naunton.

Drawings may be inspected at, and Tender documents obtained from, the Offices of the Consulting Engineers, MESSRS. JOHN H. HAISTE AND PARTNERS, 8-10 Southgate Street, Gloucester. Applications for Tender documents must be accompanied by a deposit of Five Guineas, which will be refunded on receipt of a bona-fide Tender not subsequently withdrawn.

Tenders are to be submitted to the undersigned in the manner indicated in the Tender documents, not later than First Post on MONDAY, 13th JUNE, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

F. NETTLETON, Clerk of the Council.

Council Offices, Moreton-in-Marsh, Gloucestershire.

5th May, 1960.

CONTRACTS

COUNTY OF CORNWALL.

CAMBORNE FIRE STATION.

NOTICE is hereby given of the INTENTION to LET separately the Sub-Contracts for (a) HEATING, HOT-WATER and VENTILATION INSTALLATIONS, and (b) ELECTRICAL SERVICES.

Applications are invited for permission to submit a FIXED-PRICE TENDER for these Sub-Contracts and should be made to the County Architect, County Hall, Truro, not later than MONDAY, 23rd May, 1960, from which a selected number of firms will be invited to tender. The closing date for receipt of Tenders will be notified when the documents are dispatched.

The lowest or any Tender will not necessarily be accepted, nor will the County Council pay to contractors any fees or expenses incurred in the preparation of a Tender.

E. T. VERGER, Clerk of the County Council.

County Hall, Truro, 5th May, 1960.

BOROUGH OF MIDDLETON.

ACCESS ROAD TO BOWLEE PLAYING FIELDS.

TENDERS are invited for the CONSTRUCTION of an ACCESS ROAD to Bowlee Playing Fields.

The works comprise Soil Stripping, Excavation, Kerb Laying and Construction of 960 sq. yd. of Roadway with Graded Stone Foundation and Bituminous Macadam Surfacing, together with the necessary Drainage Works.

Drawings may be inspected, and copies of the Conditions of Contract, Specification and Form of Tender may be obtained at the Office of the Borough Surveyor, Town Hall, Middleton, subject to a deposit of £2 2s., which will be returned on receipt of a bona-fide Tender.

Tenders, endorsed "Access Road to Bowlee Playing Fields," to be delivered in plain sealed envelopes to the undersigned not later than Noon on WEDNESDAY, 25th May, 1960.

The Council does not bind itself to accept the lowest or any Tender.

F. JOHNSTON, Town Clerk.

Town Hall, Middleton, Near Manchester, 6th May, 1960.

EDINBURGH CORPORATION

TENDERS are invited for the SUPPLY and DELIVERY of the FOLLOWING:—

- (a) One Mobile Loading Shovel, Scoop 1½ cu. yd., lifting capacity 2½ tons.
- (b) One Crawler Tractor, Class 1, Group 1, drawbar h.p. 51.75.

Tenderers for (a) will be asked to take in part exchange a Bray Dauloader Hydraulic Shovel; and (b) an International TD9 Tractor. These machines may be inspected by arrangement (Tel.: FOU, 7836).

Tender Forms, General Specification, etc., may be obtained from the Engineer and Manager, Lighting and Cleansing Department, 329 High Street, Edinburgh, 1.

Sealed Tenders must be returned to the TOWN CLERK, Edinburgh, by SATURDAY, 28th May, 1960.

URBAN DISTRICT COUNCIL OF BASILDON.

PRIVATE STREET WORKS.

MAKE-UP OF HILLHOUSE DRIVE, HORACE ROAD AND HILLSIDE ROAD, BILLERICAY.

TENDERS will shortly be invited for the ABOVE WORKS, comprising 1,070 lin. yd. of 6 in. and 9 in. dia. SEWERS, 6,150 sq. yd. of REINFORCED CONCRETE CARRIAGEWAY, and 3,525 sq. yd. of COLD ASPHALT FOOTPATH, together with appurtenant works.

Experienced contractors wishing to tender should apply to the ENGINEER AND SURVEYOR, Council Offices, 88 Town Square, Basildon, Essex, by 20th MAY, the application to be accompanied by a deposit of £2 2s., which will be refunded on receipt of a bona-fide Tender not subsequently withdrawn and the return of all documents.

The Council do not bind itself to accept the lowest or any Tender.

BRENTWOOD URBAN DISTRICT COUNCIL.

TENDERS are invited for drainage work at the HUTTON RECREATION GROUND, RAYLEIGH ROAD, HUTTON.

Plans, Specifications, etc., from Engineer and Surveyor, Council Offices, Brentwood, on deposit of One Guinea, returnable on receipt of bona-fide Tender. Tenders, in envelope provided, to me by 6th JUNE, 1960.

CLEMENT BOOTH, Clerk of the Council.

SAMFORD RURAL DISTRICT COUNCIL.

TENDERS are invited for the DEMOLITION, REMOVAL and DISPOSAL of a BRAITHWAITE STEEL TANK elevated on a Soft, high Tower, and the DEMOLITION and REMOVAL of a BRICK-BUILT TRANSFORMER PLINTH in the Parish of GREAT WENHAM, near Ipswich.

Specification and Form of Tender can be obtained from the Water Engineer at the address hereunder.

Tenders, in plain sealed envelopes endorsed "Water Tower," to be delivered to the undersigned not later than 2nd JUNE, 1960.

R. BLENKINSOPP, Clerk of the Council.

25 London Road, Ipswich, Suffolk.

EAST BARNET URBAN DISTRICT COUNCIL.

KERBING, FOOTWAYS AND GRASS VERGES—BEVAN HOUSING ESTATE (SECTION 2).

CONTRACT NO. 918.

FIXED-PRICE TENDERS are invited for the PROVISION and LAYING of approx. 760 lin. yd. of PRECAST CONCRETE KERB, 2,000 super. yd. of PRECAST PAVING FLAGS, and 550 super. yd. of TURF, together with ancillary works.

Forms of Tender, Specifications and Bills of Materials may be obtained from the ENGINEER AND SURVEYOR, Town Hall, Station Road, New Barnet, Herts., on payment of a deposit of Two Guineas, which will be refunded on receipt of a bona-fide Tender.

Tenders, sealed in the envelopes provided, must be received by not later than the 2nd JUNE, 1960. The lowest or any Tender will not necessarily be accepted.

CONTRACTS

N.A.T.O. COMMON INFRASTRUCTURE

SLICE VI.

NAVAL BASE INSTALLATIONS.

Final notice is hereby given that INTERNATIONAL COMPETITIVE BIDS will be invited on or about the 13th July, 1960, for work in connection with the CONSTRUCTION OF STORAGE FACILITIES in the Dumbartonshire area of Scotland.

A separate final notice will be issued in respect of the Electrical and Mechanical Installations, which will be carried out as a sub-contract within the main contract.

The approx. value of the contract will be £3,750,000, and the work will consist of the Construction of Reinforced Concrete and other Buildings, Road Works, Railway Sidings, a Deep Water Jetty, Drainage Works, together with the associated Electrical and Mechanical Installations.

It should be noted that the importation of labour from sources outside the United Kingdom may be subject to restriction and that permission could in any case be granted only on an undertaking that the contractor would pay rates of wages and observe hours and conditions of labour not less favourable than those established for United Kingdom labour for the trade or industry in the same area.

The closing date for receipt of Bids will be on or about 5th October, 1960.

Firms wishing to be invited to bid must formally notify their desire by application to the address below by 8th JUNE, 1960.

Within one week of the closing date for receipt of applications to bid, firms wishing to be invited must forward the following information—

- (i) Statement of financial resources and evidence of financial stability.
- (ii) Details of recent major contracts completed for work of a comparable nature, including an indication of the value of each.

Inquiries regarding bidding should be addressed to Director-General, Navy Works, ADMIRALTY, Chamberlain Way, Finner, Middlesbrough, England, and quoting reference N.A.T.O. C.I. Job No. 3.

COUNTY OF LINCOLN—PARTS OF KESTIVEN.

GREAT NORTH ROAD, A.1—ASPHALT SURFACING.

TENDERS are invited for the SUPPLY and LAYING of approx. 12,000 sq. yd. of 2½ in. ASPHALT and 57,000 sq. yd. of 1½ in. ASPHALT.

Specification and Bill of Quantities may be obtained from the County Surveyor, County Offices, Sleaford. Tenders to be addressed to the undersigned not later than 28th MAY, 1960.

J. E. BLOW, Clerk of the County Council.
County Offices, Sleaford, Lincs.

COUNTY BOROUGH OF NORTHAMPTON.

UNIFORM CLOTHING.

TENDERS are invited, before JUNE 13th, for SUPPLY OF TUNICS and TROUSERS. Full particulars from General Manager, Corporation Transport Offices, St. James, Northampton.

C. E. VIVIAN ROWE, Town Clerk.

COUNTY BOROUGH OF BLACKBURN.

TENDERS for the PURCHASE of 750 tons of SALT for SNOW CLEARANCE PURPOSES are invited, and should show type and offer price (a) collected at works; and (b) delivered by rail road to Stansfield Street Depot, Blackburn. Tenders, in a suitably endorsed envelope, should be sent to the undersigned not later than 10 a.m. on FRIDAY 28th.

FRANK SQUIRES, Town Clerk.
Town Hall, Blackburn.

COUNTY BOROUGH OF BOURNEMOUTH.

SEWAGE DISPOSAL WORKS—HOLDENHURST.

Treatment of sludge now under consideration. Manufacturers of HEATED SLUDGE DIGESTION PLANTS invited to apply to Borough Engineer, Town Hall, Bournemouth, for details.

A. LINDSAY CLEGG, Town Clerk.

CITY OF NOTTINGHAM.

WATER DEPARTMENT.

ANNUAL CONTRACTS, 1960-61.

CAST-IRON PIPES—CLASSES "C" AND "D" (INCLUDING ORDINARY SAND-CAST, SAND-SPUN AND SPUN-IRON). SPECIAL CASTINGS UP TO AND INCLUDING 6 IN.—CLASS "CD". SPECIAL CASTINGS OVER 6 IN.—CLASS "CD". IRREGULAR SPECIAL CASTINGS—CLASS "CD". MISCELLANEOUS IRON CASTINGS. HYDRANTS AND SLUICE VALVES. GUN-METAL FITTINGS.

The NOTTINGHAM CORPORATION invite TENDERS for the SUPPLY of the ABOVE STORES and MATERIALS for the 12 months ending 30th June, 1961.

Copies of the General Conditions, Specifications, Forms of Tender, etc., for any of the contracts above mentioned will be forwarded on application to Mr. B. W. DAVIES, Engineer and General Manager, Water Department, Castle Boulevard, Nottingham.

Tenders to be sent to me, in the envelope provided, not later than Noon on FRIDAY, the 27th May, 1960.

T. J. OWEN, Town Clerk.
Guildhall, Nottingham.

CHERTSEY URBAN DISTRICT COUNCIL.

SIX HOUSES—BROOMFIELD ROAD, NEW HAW.
FOUR HOUSES—FORDWATER ROAD, CHERTSEY.

TENDERS are invited for the CONSTRUCTION of 10 HOUSES at the ABOVE-MENTIONED SITES, together with SITE WORKS. Contractors may tender for either one or both contracts. Tender documents may be obtained from the Engineer and Surveyor, "The Orchard", Staines Lane, Chertsey, where also the Drawings may be inspected on payment of Two Guineas deposit.

Tenders must be delivered to the undersigned not later than Noon on 3rd JUNE, 1960.

A. REX HERBERT, Clerk of the Council.
Council Offices, Chertsey, Surrey.

CONTRACTS

COUNTY BOROUGH OF IPSWICH.

ASPHALT SURFACING WORKS.

TENDERS are invited for the SUPPLY, DELIVERY and LAYING of the following quantities of HOT ROLLED ASPHALT—

- (1) Approx. 550 tons of Gravel Asphalt Base Course Material.
- (2) Approx. 2,300 sq. yd. of 1½ in. Wearing Course.

Copies of Specifications, Form of Tender and Bills of Quantities may be obtained from the Borough Engineer, 19 Tower Street, Ipswich. Tenders, in plain sealed envelopes, bearing the words "Westerfield Road Roundabout Asphalt Surfacing," but with no name or mark to indicate the sender, must be received by the undersigned not later than Noon on MONDAY, 30th May, 1960.

The Council does not bind itself to accept the lowest or any Tender.

J. C. NELSON, Town Clerk.
Town Hall, Ipswich.

COUNTY BOROUGH OF SWANSEA.

SWANSEA AIRPORT.

TARSPRAYING OF RUNWAY.

TENDERS are invited for the TARSPRAYING of approx. 90,000 sq. yd. of RUNWAY and TAXIWAYS at Swansea Airport, Fairwood Common. The Airport is approx. Six Miles from Swansea Town Centre.

Tender documents may be obtained from R. D. MOODY, A.M.I.C.E., M.I.Mun.E., Borough Engineer and Surveyor, Guildhall, Swansea, and returned to the undersigned not later than 1 p.m., FRIDAY, 3rd June, 1960.

The Tender must be submitted in a plain sealed envelope bearing no name of the sender and endorsed "Swansea Airport Tarspraying."

T. B. BOWEN, Town Clerk.
The Guildhall, Swansea, May, 1960.

URBAN DISTRICT COUNCIL OF COULSDON AND PURLEY.

ENGINEER AND SURVEYOR'S DEPARTMENT.

- (a) "PARSONS PIGHTLE," COULSDON ROAD, OLD COULSDON.
- (b) "BEECHWOOD," SANDERSTEAD ROAD, SANDERSTEAD.

TENDERS are invited for the DEMOLITION of (a) "PARSONS PIGHTLE" HOUSE and (b) "BEECHWOOD" HOUSE and OUTBUILDINGS.

Form of Tender and Conditions, etc., may be obtained from H. M. COLLINS, A.M.I.C.E., Engineer and Surveyor to the Council, Council Offices, Brighton Road, Purley.

Sealed Tenders, in the endorsed envelope provided, must be delivered to the undersigned by not later than First Post on MONDAY, 30th May, 1960.

The Council do not bind themselves to accept the lowest or any Tender, and all Tenders are to be submitted free of charge.

ERIC F. J. FELIX, Clerk of the Council.
Council Offices, Brighton Road, Purley.

RUSHDEN URBAN DISTRICT COUNCIL.

TENDERS FOR ROAD WORKS.

The Council are prepared to consider TENDERS for CONSTRUCTION OF FOOTPATHS and CARRIAGEWAY SURFACING, HAYDEN ROAD ESTATE, involving approx. 408 sq. yd. of SLAB PAVING, etc., and 2,450 super. yd. of CARRIAGEWAY.

Conditions of Contract, Specification and Bills of Quantities may be obtained from the Engineer and Surveyor, at whose Office the Drawings may be inspected.

Tenders must be delivered to me not later than 12 Noon on MONDAY, 30th May, 1960, in plain sealed envelopes endorsed "Tender—Surfacing, Hayden Road."

A. G. CROWDY, Clerk of the Council.
Council Buildings, Rushden.

CANNOCK URBAN DISTRICT COUNCIL.

SEWAGE WORKS EXTENSIONS—MACHINERY.

FIXED-PRICE TENDERS are invited for the FOLLOWING ITEMS OF MACHINERY—

- (1) Four 250 g.p.m. Clear Water Centrifugal Pumping Sets suitable for total heads up to 50ft and One 250 g.p.m. Centrifugal Sludge Pumping Set suitable for heads up to 40ft.
- (2) Four 95ft. dia. Rotary Distributors, complete with Dosing Equipment.
- (3) Two Sets of Mechanical Tank Scraping Equipment suitable for tanks 60ft. in dia. and 15ft. deep.

Tender documents may be obtained from E. LOMAX, A.M.I.C.E., M.I.Mun.E., Engineer and Surveyor, Council House, The Green, Cannock, Staffs., and should be returned to me, in a plain unsealed envelope bearing no name or mark indicating the sender, and endorsed "Sewage Works—Machinery," not later than Noon on the 1st JUNE, 1960.

H. C. ALLEN, Clerk of the Council.
5th May, 1960.

HIGHAM FERRERS AND RUSHDEN WATER BOARD.

DITCHFORD SCHEME—CONTRACT NO. 6.

MANTON WATER TOWER.

TENDERS are invited for the CONSTRUCTION of a REINFORCED CONCRETE WATER TOWER having a Prestressed Concrete Water Tank, at Manton Spinney, near Rushden, Northants. Tenders will be considered from firms suitably experienced in both the construction of water-retaining structures and the application of prestressing techniques.

Tender documents may be obtained at my Office or at the Office of the Engineers, MESSRS. BINNIE, DEACON AND GOURLEY, Artillery House, Artillery Row, Westminster, S.W.1, on payment of a deposit of Five Pounds, which will be returned on receipt of a bona-fide Tender.

Tenders must be delivered at my Office before Noon on TUESDAY, 7th June, 1960.

A. G. CROWDY, Clerk to the Board.
Council Buildings, Rushden.

CONTRACTS

BOROUGH OF WIMBLEDON.

TENDERS are invited for the SUPPLY and DELIVERY of Three REFUSE COLLECTION VEHICLES, Bedford chassis, crew cab, side-loading. Forms of Tender and Specification may be obtained from the BOROUGH ENGINEER AND SURVEYOR, Town Hall, Wimbledon, S.W.19.

CITY OF OXFORD.

LANDSCAPING OF COWLEY ROAD HOSPITAL FRONTAGE.

TENDERS are invited for PHASE 2 of the ABOVE WORKS, which consists of the Preparation and Planting of Shrub and Rose Borders, Herbaceous Bedding, Tree Planting, the Provision of Garden Furniture, and a Service Path.

Interested contractors who have experience in this class of work may obtain copies of the Contract documents from the City Engineer, Town Hall, Oxford. Tenders are returnable in accordance with detailed instructions contained in the documents.

HARRY PLOWMAN, Town Clerk.
Town Hall, Oxford.

ALEXANDRA ROAD (PART) PRIVATE STREET WORKS—PONDERS END, ENFIELD.

The COMMITTEE OF FRONTAGERS invite TENDERS for the MAKING-UP OF ALEXANDRA ROAD (Part) (length approx. 570ft.) with Carriageway of 7in. Mass Concrete, Rough Punched Granite Kerb, and Footpaths of 1½ in. Asphalt on 4in. thick Concrete.

Specification, Bill of Quantities, Conditions of Contract and Form of Tender can be obtained from Mr. G. SHUTES, The International Coin Counting Machine Co., Ltd., Alexandra Road, Enfield, upon payment of £2 2s. deposit, returnable upon receipt of a bona-fide Tender and the return of all the documents. The above documents and Plan can be inspected at Mr. Shutes's Office, without charge, during office hours (9 a.m.-5 p.m., Monday-Friday).

Tenders must reach the undersigned not later than 9 a.m. on the 30th MAY, 1960, and no Tender will be received except in a plain sealed envelope, which shall be endorsed "Tender for Alexandra Road (Part)," but shall not bear any mark or name indicating the sender.

The Committee do not bind themselves to accept the lowest or any Tender.

H. B. WEDLAKE, SAINT AND CO.
420 Seven Sisters Road, London, N.4.

QUOTATIONS are invited for the SUPPLY and ERECTION of a CONCRETE SURROUND for a SPORTS GROUND, 6ft. high, 720yds. long. Replies to the Sports Secretary, DAVID BROWN INDUSTRIES, LTD., Park Works, Lockwood, Huddersfield.

TECHNICAL ESTIMATING SERVICES Introduced by R. J. CARR. The only service of its kind in the country—Westleigh House, 12 Coombe Road, New Malden, Surrey. Tel.: Malden 8640.

For Contracts received too late for classification see page 689

APPOINTMENTS VACANT

METROPOLITAN BOROUGH OF CAMBERWELL.

ASSISTANT ENGINEER (ELECTRICAL).

APPLICATIONS invited for this APPOINTMENT within salary range of £1,095-£1,405 (Grades A.P.T. IV or V of the National Scales), for street lighting modernisation and maintenance. Grade and commencing salary according to qualifications and experience.

The Council is carrying out a large programme of Group "A" and "B" modernisation and proposes to take over the maintenance of street lighting during the next 12 months.

Applicants should be suitably qualified (preferably Corporate Members of the Institute of Electrical Engineers) and have wide experience in the design and installation of street lighting schemes, together with a sound knowledge of the maintenance of equipment.

Application Forms from TOWN CLERK, Town Hall, S.E.5. Closing date: 28th MAY, 1960.

BOROUGH OF MANSFIELD.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

HIGHWAYS INSPECTOR.

APPLICATIONS are invited for the ABOVE-NAMED APPOINTMENT—Salary Misc. Division, Grade V (£650-£715).

Applicants should have had experience in the administration and operation of the Public Utilities Street Works Act, 1950, and the construction of roads and sewers.

The particulars and Form of Application can be obtained from the Borough Engineer and Surveyor, Carr Bank, Mansfield—closing date: MONDAY, 30th May, 1960.

A. C. SHEPHERD, Town Clerk.

MACCLESFIELD DISTRICT WATER BOARD.

APPOINTMENT OF WATER ENGINEER AND MANAGER.

APPLICATIONS are invited for the APPOINTMENT of WATER ENGINEER AND MANAGER to the ABOVE-MENTIONED UNDERTAKING, the statutory area of which comprises the Boroughs of Macclesfield and Congleton, the Urban District of Bollington and the Rural District of Macclesfield.

Applicants should be members of the Institution of Civil Engineers and the Institution of Water Engineers. The salary is £1,850 per annum, rising by four annual increments of £70 to £2,330 per annum, the commencing salary to be in accordance with qualifications and experience. The appointment is subject to the Conditions of Service recommended by the Joint Negotiating Committee for Chief Officers of Local Authorities, the passing of a medical examination, and three months' notice on either side. The appointment is a new one, and the successful applicant will be required to set up, administer and operate a new Undertaking to which statutory duties will be transferred on 1st April, 1961.

Applications, giving two references, should be sent to me to arrive not later than 18th MAY, 1960.

WALTER ISAAC, Clerk to the Board.
Town Hall, Macclesfield.

APPOINTMENTS VACANT

COUNTY BOROUGH OF HUDDERSFIELD.
BOROUGH ENGINEER AND SURVEYOR'S
DEPARTMENT.

APPLICATIONS are invited for the POSITION of CLERK OF WORKS at a salary in accordance with A.P.T. I Grade (£610-£765 per annum).

Candidates should have experience in the supervision of road construction schemes. The salary mentioned above is for a 38-hour week, and overtime will be paid for additional hours worked in accordance with the conditions of service.

The appointment is superannuable, and the successful applicant will be required to pass a medical examination.

Applications, stating age, experience, and giving the names of not more than three persons to whom reference can be made, should reach A. L. PERCY, M.I.C.E., Borough Engineer and Surveyor, High Street Buildings, Huddersfield, not later than 20th MAY, 1960.

Canvassing is prohibited and will be considered a disqualification.

HARRY BANN,
Town Clerk.

Town Hall,
Huddersfield,
May, 1960.

BOROUGH OF OLDBURY.

BOROUGH ENGINEER AND SURVEYOR'S
DEPARTMENT.

APPLICATIONS are invited for the APPOINTMENT of a SENIOR ENGINEERING ASSISTANT within Grade A.P.T. III (£880-£1,065 per annum) of the National Salary Scales.

Applicants must have had experience in general municipal engineering works, and preference will be given to Corporate Members of the Institution of Municipal Engineers or the Institution of Civil Engineers.

The appointment will be superannuable and subject to the National Scheme of Conditions of Service and to the successful candidate passing a medical examination.

Applications, giving particulars of age, qualifications and experience, together with the names of two referees, should be delivered to the undersigned not later than 12 Noon on 18th MAY, 1960.

KENNETH PEARCE,
Town Clerk.

Municipal Buildings,
Oldbury,
Near Birmingham,
April, 1960.

BOROUGH OF BASINGSTOKE.

APPOINTMENT OF RESIDENT ENGINEER.

APPLICATIONS are invited for the POST of RESIDENT ENGINEER to supervise the construction of a new sewage pumping station and rising main and, subsequently, a new sewage disposal works, under the instructions of the Council's Consulting Engineers, MESSRS. LEMON AND BLZARD. The works are estimated to cost approx. £300,000 and the contracts are expected to last for 2½ to 3 years.

The Conditions of Employment will be in accordance with the National Scheme of Conditions of Service and the salary scale will be Grade A.P.T. V (£1,220-£1,375). An Essential User car allowance for a car not exceeding 1,199 c.c. will be paid.

Candidates should have had considerable experience in the supervision of civil engineering works, with a particular reference to sewerage and sewage disposal. They must also be competent in setting-out, maintaining records, measuring up, and the preparation of record plans.

Applications, stating age, qualifications and experience, and giving the names of at least two persons to whom reference can be made regarding previous service, must be received by the undersigned not later than MONDAY, 23rd May, 1960. Applications should be endorsed "Resident Engineer."

Canvassing will disqualify. L. WOMERSLEY,
Town Clerk.

Municipal Buildings,
London Road,
Basingstoke, Hants.

WELWYN GARDEN CITY URBAN
DISTRICT COUNCIL.

APPOINTMENT OF ASSISTANT ENGINEER.

APPLICATIONS are invited for the FOLLOWING PERMANENT APPOINTMENT in the Department of the Engineer and Surveyor:

Assistant Engineer.—A.P.T. Grade II, £765-£880. The commencing salary to be within the grade up to the maximum in accordance with the qualifications and experience.

The appointment is subject to the following conditions: (a) The provisions of the Local Government Superannuation Acts. The successful candidate will be required to pass satisfactorily a medical examination; (b) One month's notice on either side.

Applications, stating age, qualifications, experience, and giving the names of two persons to whom reference can be made, should be sent to the Engineer and Surveyor not later than the 31st MAY, 1960. Canvassing disqualifies.

L. J. SLOCOMBE,
Clerk of the Council.

Council Offices,
Welwyn Garden City,
3rd May, 1960.

WYMONDHAM URBAN DISTRICT
COUNCIL.EXTENSION AND RECONSTRUCTION OF SEWAGE
DISPOSAL WORKS.

RESIDENT ENGINEER.

APPLICATIONS are invited for the APPOINTMENT of a RESIDENT ENGINEER to supervise, under the direction of the Consulting Engineers, the extension and reconstruction of the Sewage Disposal Works at Wymondham, Norfolk.

The salary will be at the rate of £1,200 per annum, and work is expected to commence later this month. The appointment, subject to satisfactory service, is expected to last for about 18 months and may be terminated on one month's notice on either side.

Applicants, who must have had considerable experience on similar works, should apply in writing to the undersigned not later than MONDAY, 23rd May, 1960, giving details of age, qualifications, and previous appointments, together with the names of two persons to whom reference can be made.

Envelopes containing applications should be marked "Resident Engineer," and canvassing in any form will disqualify.

T. J. TURNER,
Clerk to the Council

Council Offices,
Middleton Street,
Wymondham,
Norfolk,
6th May, 1960.

APPOINTMENTS VACANT

COUNTY BOROUGH OF EAST HAM.
APPOINTMENT OF SENIOR SURVEYING
ASSISTANT—HOUSING DEPARTMENT.

APPLICATIONS are invited. Salary in accordance with Grade A.P.T. III (£880-£1,065 per annum plus London Weighting).

Applicants should have passed the Final Examination of the Royal Institution of Chartered Surveyors (Building Sub-Division), have had experience of supervision of housing contracts, and be competent Draughtsmen.

Further particulars and Application Form (returnable by 25th MAY, 1960) from the TOWN CLERK, Town Hall, East Ham, E.6.

BOROUGH OF WILLESDEN.

APPLICATIONS are invited from suitably qualified and experienced persons for the FOLLOWING PERMANENT APPOINTMENTS:

- Senior Engineering Assistant within Scale "A" (£1,240 x £50—£1,390 p.a.).
- Engineering Assistant within A.P.T. Special Grade (£785-£1,070 p.a.).
- Engineering Assistant within Grade A.P.T. II (£765-£880 p.a.).
- Engineering Assistant within Grade A.P.T. I (£610-£765 p.a.).

For all posts, except (a) above, London Weighting maximum £30 p.a. is payable in addition to the salaries shown.

For posts (a) above preference will be given to candidates having above average experience in structural engineering or sewerage or highway works. The Council are unable to assist with housing accommodation.

Forms of Application and Conditions of Appointment may be obtained from the Borough Engineer and Surveyor, Town Hall, Dyne Road, Kilburn, N.W.6. Applicants to be returned to the undersigned not later than MONDAY, 30th May, 1960.

When writing or Application Forms, candidates must state for which appointment they wish to apply.

(Signed) R. S. FORSTER,
Town Clerk.

2nd May, 1960.

BOROUGH OF WILLESDEN.

BOROUGH ENGINEER AND SURVEYOR'S
DEPARTMENT.

APPLICATIONS are invited for the PERMANENT APPOINTMENT of TECHNICAL ASSISTANT. Salary within A.P.T. II (£765-£880 p.a.) plus London Weighting maximum £30 p.a.).

Applicants should have passed the Intermediate Examination of the Institution of Municipal Engineers, or equivalent, and have had wide experience in the supervision and administration of minor civil engineering works undertaken by Direct Labour and contract.

The Council are unable to assist with housing accommodation.

Details and Form of Application obtainable from the Borough Engineer and Surveyor, Town Hall, Dyne Road, Kilburn, N.W.6, and must be returned to the undersigned not later than 10 a.m. on MONDAY, 30th May, 1960.

(Signed) R. S. FORSTER,
Town Clerk.

BOROUGH OF WILLESDEN.

BOROUGH ENGINEER AND SURVEYOR'S
DEPARTMENT.

APPLICATIONS are invited for the FOLLOWING APPOINTMENTS in the Building Surveyor's Section:

- General Assistants (Two Posts) within Grade A.P.T. II (£765-£880 p.a.).
- General Assistant within Grade A.P.T. I (£610-£765 p.a.).

London Weighting, maximum £30, is payable in addition to both above salaries.

Applicants should have passed the Intermediate Examination of the Royal Institution of Chartered Surveyors, or equivalent, and have had experience in the general work of a Building Surveyor's Office, and the administration of Building By-laws and the Town Planning Acts.

For one of the (a) posts, experience of dealing with the control of advertisements will be an advantage.

The Council are unable to assist with housing accommodation.

Details and Form of Application obtainable from the Borough Engineer and Surveyor, Town Hall, Dyne Road, Kilburn, N.W.6, and must be returned by 10 a.m., MONDAY, 30th May, 1960.

FAREHAM URBAN DISTRICT COUNCIL.

APPOINTMENT OF RESIDENT ENGINEER.

WESTERN WARDS MAIN DRAINAGE CONTRACTS.

APPLICATIONS invited from experienced and qualified persons for APPOINTMENT as RESIDENT ENGINEER to supervise construction of above works, under direction of the Consulting Engineers, MESSRS. WATERHOUSE AND ROUTHWAITE, Newcastle upon Tyne. Approx. cost of scheme is £500,000, which includes a sea outfall, disintegrator station, various pumping stations, approx. six miles of trunk sewer, some in tunnel, and ancillary works, together with other sewers, etc.

Salary will be in the range of £1,250-£1,500 per year, according to experience, with car allowance for an 8/10-h.p. car.

Applications, giving full particulars of experience, age, qualifications, etc., with names of three Engineers or previous employers to whom reference can be made, to the undersigned on or before 31st MAY, 1960.

B. W. RANDS,
Clerk to the Council.

Merton,
5 Grove Road,
Fareham, Hants.

SUNDERLAND AND SOUTH SHIELDS
WATER COMPANY.

DERWENT RESERVOIR.

INSPECTOR OF WORKS.

APPLICATIONS are invited from PUBLIC WORKS INSPECTORS experienced in dam construction or similar work.

Salary will be £750 per annum plus a lodging or travelling allowance of £3 3s. per week. Overtime rates will be paid.

Applications, stating age and other personal particulars, and giving full details of experience, should be received by me not later than 25th MAY. Applicants are also required to give the names and addresses of two persons to whom reference may be made.

A. G. McLELLAN,
General Manager.

29 John Street,
Sunderland.

APPOINTMENTS VACANT

BOROUGH OF HARROW.
APPOINTMENT OF TEMPORARY CLERK OF WORKS.

APPLICATIONS are invited for the ABOVE TEMPORARY APPOINTMENT in the Department of the Borough Engineer and Surveyor.

Applicants should be experienced in supervising road construction, improvement and main drainage works. Salary at the rate of £15 per week.

Application Forms, obtainable from me, should be returned by SATURDAY, 21st May, 1960.

D. H. FRITCHARD,
Town Clerk.

Town Clerk's Office,
Harrow West Lodge,
Harrow, Middx.

CHISLEHURST AND SIDCUP URBAN
DISTRICT COUNCIL.

ENGINEER AND SURVEYOR'S DEPARTMENT.

APPLICATIONS invited for FOLLOWING SUPER-ANNUABLE POSTS:

- Engineering Assistant, A.P.T. III/Special Grade (£880-£1,070 plus London Weighting). Applicants must be suitably qualified, Starting salary according to qualifications and experience.
- Engineering Draughtsman (Male), Grade A.P.T. I (£610-£765 plus London Weighting). Applicants must have civil engineering experience, preferably in Local Government. Starting salary according to experience.

Housing accommodation if required. Applications, stating age, qualifications and experience, with names of two referees, to be undersigned by Noon, 23rd MAY, 1960.

T. W. FAGG,
Clerk of the Council.

Council Offices,
Sidcup Place,
Sidcup, Kent.

TADCASTER RURAL DISTRICT COUNCIL.

WORKS OF SEWERAGE AND SEWAGE DISPOSAL.

ASSISTANT RESIDENT ENGINEERS.

The Council invite APPLICATIONS for POSTS of ASSISTANT RESIDENT ENGINEER on works of sewerage and sewage disposal being carried out in and near to Tadcaster and Bishopthorpe, York, by contract, under the direction of the Council's Consulting Engineers, A. H. S. WATERS AND PARTNERS, of Birmingham.

Each successful applicant will be required to perform his duties as an Assistant to one of the Council's Resident Engineers in the supervision of construction of sewers, pumping stations and/or sewage disposal works, work on which has already been commenced. The duties will also include the investigation and recording of existing drains and other services, the preparation of works orders, the setting-out and measuring of work, and all other matters usually associated with such posts.

The time specified for the completion of each of the contracts concerned will extend for at least another 12 months, and it is required that the successful applicant take up these duties as soon as possible. The salary will be from £850 to £1,050 per annum, according to age and previous experience; of these sums, £100 per annum will be treated as subsistence allowance.

Applications, endorsed "Assistant Resident Engineer," stating age, experience and qualifications, together with the names of two persons to whom reference may be made concerning the applicant's abilities and character, must reach the undersigned not later than the 20th MAY, 1960.

L. STOCKTON,
Clerk of the Council.

Council Offices,
Station Road,
Tadcaster.

TYNE IMPROVEMENT COMMISSION.

CIVIL ENGINEERS.

The Tyne Improvement Commissioners invite APPLICATIONS from CIVIL ENGINEERS for APPOINTMENTS at senior and junior levels on their Technical Staff.

The River Tyne is one of the major ports of the United Kingdom and the Tyne Commissioners' Undertaking affords excellent opportunities for interesting work associated with the execution and maintenance of extensive dock and harbour engineering works.

Applicants for senior appointments must be Chartered Civil Engineers, and experience in the design of new works would be an added qualification.

Salaries will be related to the qualifications and experience of successful candidates, and within a range up to £1,450 per annum.

The appointments are superannuable and subject to the passing of a medical examination.

Applications, stating age, education, training, qualifications, and details of experience, and giving the names and addresses of two referees as to training and experience, should reach the undersigned not later than the 31st MAY, 1960.

R. N. EGGLETON,
Secretary.

Bewick Street,
Newcastle upon Tyne, 1.

SUNDERLAND AND SOUTH SHIELDS
WATER COMPANY.

ASSISTANT ENGINEERS—DERWENT SCHEME.

APPLICATIONS are invited for the TEMPORARY APPOINTMENTS of TWO ASSISTANT ENGINEERS in the new works department of the company. The successful applicants will primarily be concerned with the design and construction of the Mosswood Treatment Works, which will have a capacity of 32 m.g.d. It is anticipated that the duration of the appointments will be at least four years, and the commencing salaries will, according to qualifications and experience, be as follows: (1) Not less than £1,500 per annum; (2) Within the range £1,175 to £1,325 per annum.

Candidates should be Associate Members of the Institution of Civil Engineers, or holders of a B.Sc. in Civil Engineering, or in the case of the second appointment, have passed the equivalent examinations. The appointments call for a sound knowledge of building and structural design and construction, and experience in these fields in relation to waterworks practice would be an advantage.

Arrangements can be made for the successful applicants to become, or to continue as, members of a Local Government superannuation scheme during their service with the company.

Applications, giving full personal particulars and details of qualifications and experience, together with the names of two persons to whom reference may be made, should be received by me not later than 30th MAY, 1960.

A. G. McLELLAN,
General Manager.

29 John Street,
Sunderland.

APPOINTMENTS VACANT

THE GLAMORGAN COUNTY COUNCIL.

RESIDENT ENGINEER REQUIRED for a period of approx. 18 months, to supervise the erection of new buildings and adaptations at the Glamorgan Training College, Barry (estimated cost of approx. £450,000). Duties to commence probably at the end of June, and assistance will be given by a Clerk of Works. Applicants must have had considerably experience in the supervision and construction of reinforced concrete structures, the quality control of concrete, and have a sound knowledge of good general building construction. Preference will be accorded to applicants who are Chartered Civil or Structural Engineers. Salary £1,300 p.a., plus either a weekly lodging allowance or daily travelling expenses. Applications, giving age, qualifications, training and experience, together with names of two referees, to the COUNTY ARCHITECT, County Hall, Cardiff. Closing date: 30th MAY.

RICHARD JOHN,
Clerk of the County Council.

CITY OF NEW SARUM.

APPOINTMENT OF RESIDENT ENGINEER.

APPLICATIONS are invited for the APPOINTMENT of RESIDENT ENGINEER to supervise the construction of a new sewage treatment plant at Peter's Finger, Salisbury, and associated sewerage works. Work is expected to start within the next three months and will last for approx. 2½ years. Salary will be at the rate of £1,250 per annum plus car allowance. The appointment will be superannuable and will be terminable by one month's notice on either side. Applicants should have had wide experience on similar works, and preference will be given to holders of a recognised civil engineering qualification. Applications, endorsed "Resident Engineer," and stating age, qualifications and experience, together with the names of two persons to whom reference can be made, must be delivered to the City Engineer and Surveyor, The Council House, Bourne Hill, Salisbury, not later than Noon on FRIDAY, 20th May, 1960.

GEO. RICHARDSON,
Town Clerk.

URBAN DISTRICT COUNCIL OF KIDSGROVE.

DEPUTY ENGINEER AND SURVEYOR.

The Council invites APPLICATIONS for the POST of DEPUTY ENGINEER AND SURVEYOR at a salary in accordance with the Special Grade, the commencing point to be according to qualifications and experience. Preference will be given to applicants who hold the Testamur of the Institution of Municipal Engineers, or its equivalent.

Housing accommodation will be available to the successful applicant. Applications, giving full information as to qualifications and experience, should be addressed to the Engineer and Surveyor, Town Hall, Kidsgrove, so as to reach him not later than MONDAY, 23rd May, 1960.

Candidates should state whether they are related to any member or senior officer of the Council, and canvassing, either directly or indirectly, will be a disqualification.

O. LLOYD HURST,
Clerk of the Council.

URBAN DISTRICT OF SUTTON-IN-ASHFIELD.

ENGINEER AND SURVEYOR'S DEPARTMENT.

APPLICATIONS are invited from suitably qualified persons for the UNDERMENTIONED POSTS in the Engineer and Surveyor's Department:

- Chief Assistant Engineer.—Salary according to Special Grade for Engineering Staffs plus £40 in respect of special responsibilities.
- Engineering Assistant.—Salary according to Special Grade for Engineering Staffs.
- Junior Engineering Assistant.—Salary A.P.T. I.

The commencing salary for each post will be fixed according to the qualifications and experience of the successful applicant.

Applicants must possess the appropriate qualifications laid down in the National Scheme of Conditions of Service. Assistance will be given in connection with the provision of housing accommodation if required.

Applications, stating age, qualifications, present and past appointments, and full details of experience, together with the names and addresses of two referees, to be forwarded to the undersigned so as to be received not later than 12 Noon on MONDAY, the 23rd May, 1960.

Canvassing, either directly or indirectly, will be disqualifying. WALTER LAUGHTON, Clerk of the Council.

HARLOW URBAN DISTRICT COUNCIL.

ASSISTANT HOUSING SUPERINTENDENT (Temporary) REQUIRED. Salary within A.P.T. I (£610-£765). Appointment subject to medical examination. Applications from persons experienced in the building trade and capable of preparing schemes, plans and estimates in connection with a three-year programme for the modernisation of Council houses. The person appointed will also be required to supervise the carrying out of the work by the Council's Direct Labour Organisation. Although the appointment is temporary, there is the possibility of advancement and permanency at the completion of the programme.

Housing accommodation will be made available if necessary, and removal expenses paid. Applications in writing, giving names of two referees, to be made to the Engineer and Surveyor, A. W. R. WEBB, A.M.I.C.E., M.I.Mun.E., Nettleswell Hall, Harlow, Essex, not later than WEDNESDAY, 25th May, 1960.

GRIMSBY RURAL DISTRICT COUNCIL.

DEPUTY ENGINEER AND SURVEYOR.

APPLICATIONS are invited from suitably qualified persons for the ABOVE APPOINTMENT. Salary within Grade A.P.T. III. Essential user car allowance. Housing accommodation favourably considered. Detailed applications, naming two referees, to be undersigned by 23rd May, 1960.

FRANKLYN WILSON,
Clerk of the Council.

Council Offices,
Deansgate,
Grimsby, Lincs.

APPOINTMENTS VACANT

MINISTRY OF LABOUR.

ROAD RESEARCH LABORATORY (D.S.I.R.), Harmondsworth, Middlesex, REQUIRES CIVIL ENGINEERS, PHYSICISTS, MATHEMATICIANS, STATISTICIANS in the Senior Scientific Officer Grades, for work in Tropical Section of R.R.L., as follows:

- Civil Engineers and Physicists, for work on problems of soil mechanics, road construction and maintenance in overseas territories;
- Civil Engineers, Mathematicians and Statisticians, for work on road traffic and transport, and on road safety problems of overseas territories.

Work based at Road Research Laboratory at Harmondsworth, and involves regular visits to overseas territories, with, in some cases, postings to overseas territories for periods of one to two years on specific projects.

Qualifications: 1st or 2nd Class Hons. degree. At least three years' post-graduate experience required for S.S.O. Starting salaries within range S.S.O. £1,233-£1,460; S.O. £655-£1,150. Normal prospects of promotion to Principal Scientific Officer in mid-30s (range up to £2,120), with possibilities of higher posts. 5-day week.

Applications from overseas candidates will be considered. Forms from MINISTRY OF LABOUR, Technical and Scientific Section, 26 King Street, London, S.W.1, quoting E.450/9A.

GOVERNMENT OF THE BAHAMAS.

ENGINEERING ASSISTANT (SEWERAGE).

PUBLIC WORKS DEPARTMENT.

Qualifications: Candidates (not over 40) must be either A.M.I.C.E. or A.M.I.Mun.E., with not less than five years' practical experience in sewerage and sewage disposal schemes. Experience in town planning an advantage.

Duties: To head the Water Sewerage Section of the Public Works Department. Terms: On contract for one tour of 36 months in the first instance, with emoluments at the rate of £1,953 p.a. Free passages. No direct taxation at present.

Apply DIRECTOR OF RECRUITMENT, Colonial Office, London, S.W.1. Give full name and age, and brief details of qualifications and experience. Quote BCD112/27/02/D14.

GOVERNMENT OF NORTHERN NIGERIA.

IRRIGATION ENGINEERS.

Qualifications: Candidates should have either a University degree, or equivalent, recognised by the Institution of Civil Engineers, and two years' practical experience; or have passed, or be otherwise exempt from, Parts I and II of the Final Examinations of the Institution of Civil Engineers, with at least five years' practical experience.

Duties: Investigation, design and construction of water control projects, flood protection, storage and storage schemes, diversion of rivers, with distributory systems and the reclamation of swamps and marshes.

Emoluments in Scale £1,440 to £2,202 p.a. Terms: Contract/gratuity for up to two tours of 15-24 months, with substantial gratuity on satisfactory completion of engagement of 12 months.

Free passages; generous home leave. Substantial children's allowances. Apply DIRECTOR OF RECRUITMENT, Colonial Office, London, S.W.1. Give full name and age, and brief details of qualifications and experience. Quote BCD63/408/03/D14.

HERTFORDSHIRE COUNTY COUNCIL.

HIGHWAYS DEPARTMENT.

STEVENAGE BY-PASS CONTRACT.

APPLICATIONS are invited for a JUNIOR ENGINEERING ASSISTANT, in the Supervising Engineer's Office, at a salary of £1,050 per annum. The appointment will be to the temporary staff for a period of about 18 months.

Apply at once, stating age, qualifications and experience, and names of two referees, to the COUNTY SURVEYOR, County Hall, Hertford.

HERTFORDSHIRE COUNTY COUNCIL.

CLERKS OF WORKS REQUIRED by Hertfordshire County Council for Stevenage By-pass Contract. Approx. 18 months' employment at £15 10s. per week. Subsidistence allowance also payable in appropriate cases.

Applications, stating age, experience, together with the names and addresses of two referees, to COUNTY SURVEYOR, County Hall, Hertford.

BOROUGH OF BATLEY

ENGINEERING ASSISTANT.

APPLICATIONS are invited for the APPOINTMENT of ENGINEERING ASSISTANT in the Borough Engineer's Department at salary in accordance with A.P.T. Grade III (£880-£1,065), according to experience.

Batley is carrying out an extensive programme of Central Area Redevelopment. The successful applicant will be engaged on this work, and will be able to gain considerable experience in new buildings, road works and drainage.

Preference will be given to candidates who have passed the Testamur of the Institution of Municipal Engineers and who have had experience in an Engineer's Office of a Local Authority.

Housing accommodation will be made available according to need, if required. Forms of Application may be obtained from the Borough Engineer, West House, Hanover Street, Batley, to whom the same should be returned in a sealed envelope, endorsed "Engineering Assistant," not later than SATURDAY, 4th June, 1960.

L. O. BOTTOMLEY,
Town Clerk.

SENIOR ENGINEER, age 25-35, REQUIRED by civil engineering contractors for north-west area. Permanent position for man of ability, who must have varied experience on large-scale civil engineering works and be able to pre-plan contracts and control engineering staff on a number of sites concurrently. Good salary and transport provided.—Apply in confidence, with full details, age, experience and salary expected, to Box V.1794, "The Contract Journal."

R.C. DESIGNER DETAILER WANTED at once by underpinning, jacking specialists. Men aged 25-30 should apply, stating age, experience, qualifications, present salary, to PYNFORD, LTD., 74 Lancaster Road, London, N.4.

CIVIL ENGINEERS AND ASSISTANTS REQUIRED for contracts in the East Midlands. Preference for those previously employed by contractors. Salary commensurate with experience; participation in superannuation scheme, and ample opportunities for advancement to satisfactory appointments.—Write Box V.1760, "The Contract Journal."

APPOINTMENTS VACANT

WEST SUSSEX COUNTY COUNCIL.

COUNTY SURVEYOR'S DEPARTMENT.

APPLICATIONS are invited for the APPOINTMENT on the PERMANENT STAFF of a Special Grade ASSISTANT FOR TRUNK ROADS, Special Grade (£785-£1,070), at a point within the salary range according to qualifications and experience.

Candidates must have experience in the preparation of highway improvement schemes, and possess the technical qualifications for the grade.

Application Forms may be obtained from the County Surveyor, County Hall, Chichester, and must be returned to him duly completed not later than 30th MAY, 1960.

T. C. HAYWARD,
Clerk of the County Council.

MEASURER REQUIRED by tarmacadam and asphalt company in London area. Should be capable of measuring up and finalising surfacing contracts and minor preparation works, and in submitting final bills. Write Box V.1891, "The Contract Journal."

ESTIMATOR REQUIRED for building contractors' office for pricing general building work, £20,000-£50,000, in the southern half of England, from head office in London, S.W.16.—Reply, stating age, experience, and salary required, to Box V.1832, "The Contract Journal."

APPLICATIONS are invited to fill the following vacancies: (a) SENIOR CIVIL ENGINEER, with background of estimating and construction work, with not less than 7/10 years' experience; (b) JUNIOR ENGINEER, with not less than 3½ years' experience in setting-out and concrete control; (c) SENIOR QUANTITY SURVEYOR, with experience in interim and final accounts, for works of civil engineering construction. All posts carry excellent salaries. Pension and bonus schemes in operation.—Write or telephone for appointment to Contracts Director, LOMOUNT CONSTRUCTION, LTD., 40 Piccadilly, London, W.1.

YOUNG ENGINEER (Graduate) REQUIRED for work in London area with small but expanding firm. This permanent position offers very wide experience of all stages of civil engineering contracts. Previous site experience would be useful but not essential. Apply, giving qualifications and experience, to C. J. SIMS, LTD., 2 Victoria Street, S.W.1.

TARSLAG, LTD. Midlands Area, REQUIRE ASPHALT and TARMACADAM SUPERVISORS (aged 24-30). Progressive and permanent positions in expanding department for suitable applicants. Superannuation scheme. Vehicle available.—Write in confidence to the Secretary, TARSLAG, LTD., Economac House, Dunstall Road, Wolverhampton.

DOWSETT ENGINEERING (AUSTRALIA) PTY., LTD.

A subsidiary company of DOWSETT HOLDINGS, LTD., REQUIRE CHIEF GENERAL MANAGER experienced in civil engineering and associated work. The company has been established in Australia for over 10 years, and covers a wide field in civil engineering contracting, including heavy excavation, harbour works, concrete structures and general and alluvial mining, with specialised departments engaged in deep drilling and prefabricated house construction in aluminium and concrete. The company is associated with Dowsett Projects (Australia), Pty., Ltd., designers and manufacturers of prestressed concrete. The head office of the company (from which the Chief General Manager will operate) is at Sydney, with branch offices in Victoria, Queensland and the Northern Territories.

- QUALIFICATIONS:**
- (1) Engineering degree or equivalent.
 - (2) Age 31-37.
 - (3) Past experience must include proved success in: (a) Managerial post at senior level; (b) Engineering, financial and commercial control; (c) Leadership.

(4) The position calls for exceptional energy and effort. No candidate will be considered who cannot fulfil the stated requirements or who may be short of the necessary personality, self-confidence and proven ability to carry it through. Other things being equal, preference will be given to Australian applicants or to other British applicants with recent successful Australian experience, who are willing to look upon Australia as their future permanent domicile.

First-class references will be required; these will not be taken up without the candidate's prior permission and after agreement has been reached on all other matters. Duties: To be completely responsible to the board of directors for all aspects of the company's work and management (including financial). To obtain and profitably carry out work in all spheres of the company's activities, to build up turnover, to create and consolidate an organisation of first-class personnel, and to maintain the company in a satisfactory financial state. Salary and prospects: It is expected that the General Manager should qualify for a senior executive director's position within two years, and that his salary should increase by 50% within five years. Otherwise this appointment will not have been considered a success. An initial salary will be negotiated in the £A4,000 range (according to final assessment of the successful candidate). Superannuation scheme. Car provided and other usual expenses refunded. Initial expenses: Free passages will be provided for the successful applicant and his family, and financial assistance will be available towards housing in Australia.—Applications, which will be treated with absolute confidence, should be marked "Private," and sent to:

The Managing Director,
DOWSETT HOLDINGS, LTD.,
18 Queen Street, Mayfair, London, W.1.

STRUCTURAL ENGINEER WANTED at once by underpinning, jacking designer, contractors. An excellent opportunity for men aged 20-30.—Apply, stating age, experience, qualifications, present salary, to PYNFORD, LTD., 74 Lancaster Road, London, N.4.

BUILDING MANAGER ASSISTANT TO BUILDING MANAGER REQUIRED by MOWLEM (SCOTLAND), LTD., on a nuclear generating station contract in Ayrshire. Applicants should have had several years' site experience in similar capacity dealing with sub-contractors and interpretation of specifications and drawings. An H.N.C. or L.T.O.B. qualification would be an advantage, but not essential. Salary in accordance with age and experience. A residence allowance will be paid where applicable, and an invitation to the company's superannuation scheme will follow after a probationary period. Write full particulars to The Agent, MOWLEM (SCOTLAND), LTD., Hunterston Nuclear Generating Station, West Kilbride, Ayrshire.

ASSISTANT BUYER REQUIRED by West End civil engineering contractors, age 23-30.—Write, giving age, experience and qualifications, and salary required, to the Chief Buyer, PETER LIND AND CO., LTD., Romney House, Tufton Street, S.W.1.

APPOINTMENTS VACANT

ESTIMATORS REQUIRED for well-established civil engineering and building firm at their head office in Birmingham. Good prospects, bonus and staff pension scheme.—Write in confidence, stating age, experience, and salary required to Box V.1747, "The Contract Journal."

ACCOUNTS CLERK—Civil engineering contractors in Hertford area. Applicant with contractors' trial balance, for head office of subsidiary company in N.E. Africa. Good salary, accommodation and leave. Write Box V.1758, "The Contract Journal," quoting Ref. QRS/12.

SITE CLERK REQUIRED for civil engineering contract in Hertford area. Applicant with contractors' office experience preferred. Good salary and pension scheme.—Write, giving full particulars of experience, age and salary, required, to Box V.1777, "The Contract Journal."

CIVIL ENGINEERING and BUILDING

Vacancies exist on major civil engineering and industrial building projects for experienced:—

**GENERAL FOREMEN
TRADES FOREMEN
GANGERS
CASHIERS and OFFICE MANAGERS
WAGES and COST CLERKS
FOREMAN SITE FITTERS
SITE FITTERS**

Positions available in Midlands and various parts of Great Britain, offering good prospects.—Apply, stating age, training, experience and indication of wages required, to:

ROBERT M. DOUGLAS (CONTRACTORS), LTD.,
395 George Road, Erdington, Birmingham, 23.

JUNIOR ENGINEER (civil) REQUIRED for setting-out and supervision of small contracts in the Brighton area.—Write, in the first instance, giving details of experience, qualifications and salary required, to S. M. TIDY (PUBLIC WORKS), LTD., 161 Preston Road, Brighton, 6.

ESTIMATOR ASSISTANT REQUIRED by small firm of public works contractors in South Herts. An opportunity arises for an individual capable of supervising contracts secured by a successful conclusion as proprietor, who has no family, desires to reduce his own working week to about four days.—Applications, stating experience and salary required, to Box V.1795, "The Contract Journal."

W. AND C. FRENCH, LTD., urgently require experienced ENGINEERS, preferably qualified, for building and civil engineering contracts in the Home Counties. Good prospects for applicants.—Apply in writing, stating age, experience and salary required, to Personnel Manager, 50 Epping New Road, Buckhurst Hill, Essex, quoting Reference No. 167.

QUANTITY SURVEYOR—Applications are invited from fully trained Quantity Surveyors for work on site in Cumberland in connection with civil engineering and reinforced concrete construction, for a period of 12 months from August. High salary will be paid to the right applicant.—Write Box V.1786, "The Contract Journal."

QUANTITY SURVEYORS and ASSISTANTS

REQUIRED for London, provincial and overseas contracts. Good salary, superannuation, excellent prospects.—Write, giving details of experience, age, etc., to:

**Personnel Department,
HUMPHREYS, LTD.,**
Building and Civil Engineering Contractors,
199 Knightsbridge, S.W.7.

ASSISTANT ENGINEER REQUIRED by major civil engineering and building contractors operating on a national scale on nuclear, steam and hydro-electric projects. This permanent appointment is initially for a major civil engineering contract with excellent opportunities for advancement. Good salary and conditions and entry into superannuation scheme after 12 months' service.—Apply to THE MITCHELL CONSTRUCTION CO., LTD., Wharf Works, Peterborough.

SUB-AGENT REQUIRED by major civil engineering and building contractors operating on a national scale on nuclear, steam and hydro-electric projects. This permanent appointment is initially for a major civil engineering contract, with excellent opportunities for advancement. Good salary and conditions and entry into superannuation scheme after 12 months' service.—Apply to THE MITCHELL CONSTRUCTION CO., LTD., Wharf Works, Peterborough.

A. MONK AND CO., LTD.

REQUIRE SITE CLERKS for major civil engineering and building contracts in various areas of England and Wales. Experience in preparation of wages sheets and P.A.V.E. essential.—Replies, which will be treated in confidence, and must give details of previous experience and state age and salary required, should be addressed to:

**The Accountant,
A. MONK AND CO., LTD.,**
Padgate, Warrington, Lancashire.

AREA AGENTS REQUIRED to take charge of gas and water mainlaying contracts, also sewer contracts. Successful applicants will be required to have a thorough knowledge of contract procedure and preparation of measurements.—Write, stating age, experience, and salary required, to JOHN COCHRANE AND SONS, LTD., Poyle Road, Colnbrook, Bucks.

CIVIL ENGINEER, with good experience in estimating and planning, **REQUIRED** in head office of well-known contractors concerned with major civil engineering works at home and abroad. At this stage applicants are requested to give a general outline of their careers as a preliminary to selection for interview.—Write Box V.1838, "The Contract Journal."

MARTIN COWLEY, LTD., REQUIRE immediately the undermentioned personnel for large motorway contract at Stevenage, Herts.: **PROJECT MANAGERS, SENIOR AGENTS, SENIOR and ASSISTANT ENGINEERS, GENERAL FOREMEN, SITE OFFICE MANAGERS, WAGES/COST CLERKS, TIME-KEEPERS/MATERIAL CHECKERS.** Applicants must be fully mobile and experienced in the larger type of project.—Apply, in writing, with full details of past career, immediately, to 112 Jermyn Street, London, S.W.1.

APPOINTMENTS VACANT

CONCRETE ENGINEER or CHEMIST REQUIRED to take technical control of quality of large quantities of ready-mixed concrete in Liverpool area. Applicant must have had experience in concrete laboratory testing procedures and trouble shooting in the field. To a man with drive and initiative this permanent position offers unique opportunities. Worldwide company in an expanding industry.—Reply in confidence to Technical Director, READY MIXED CONCRETE, LTD., 2/3 The Sanctuary, London, S.W.1.

CIVIL ENGINEER REQUIRED for large low-pressure compressed-air shield driven tunnel contract in Hull.—**MITCHELL BROTHERS SONS AND COMPANY, LTD.,** 167 Victoria Street, London, S.W.1. Tel.: Victoria 4978.

AGENTS, SUB-AGENTS

Civil engineering contractors **REQUIRE** first-class men with extensive site experience of the organisation and successful execution of large contracts involving heavy, high-quality reinforced and prestressed concrete structures.—Give details of age, qualifications, experience, quoting Ref. DEF/4, to:

BOX V.1814, "THE CONTRACT JOURNAL,"
Or 'phone: SLOane 0781.

ASSISTANT QUANTITY SURVEYORS REQUIRED for general road works. Southern area. Experienced in site measuring and final bills. Good progressive positions. Staff pension scheme.—Write, giving age, experience, salary required, to Box V.1771, "The Contract Journal."

W. AND C. FRENCH, LTD., urgently require fully experienced **BONUS SURVEYORS** for civil engineering and building contracts.—Apply in writing, stating age, experience and salary required, to Personnel Manager, 50 Epping New Road, Buckhurst Hill, Essex, quoting Reference No. 867.

SURFACE MAINTENANCE SERVICES, LTD., The following senior staff positions are under consideration. All posts are permanent and offer excellent prospects for applicants of proven ability with the appropriate qualifications and experience:—

- (1) **CONTRACTS MANAGER** to take charge of the company's department that deals with private street works contracts. The turnover of this department is approx. £300,000 per annum, and involves the handling of a large number of small sites, location in the Home and Southern Counties. Applicants for this position must be fully experienced in this particular type of contract and be capable of controlling the work from the tender stage to completion.
- (2) **AREA AGENT** to take charge of a number of small general civil engineering contracts, location on the South Coast. The applicant must be capable of handling a turnover of approx. £250,000 for contracts of £2,000 to £10,000, consisting of road improvement works, sewers, car parks, etc. Working from an area office. He must undertake contracts negotiations, interim and final accounts, setting out and general administration.
- (3) **SENIOR AGENT** to take complete charge of a larger outfall sewer contract on the South Coast, involving cast-iron and concrete pipe work, filling, pumping station, etc. The applicant must be a qualified civil engineer, having held a senior position for at least five years, with particular experience in this type of contract.
- (4) **ENGINEER/AGENT** to take charge of £200,000 road contract, including minor bricklaying and culvert work. The applicant must be an engineer with previous road construction experience and capable of working on his own initiative.
- (5) **SENIOR QUANTITY SURVEYOR** to work in the Bournemouth office and take charge of final accounts, and to assist the costing and estimating departments. Applicant must have had several years' experience, particularly with civil engineering works.
- (6) **SITE ENGINEERS**, Senior and Juniors, for site work in the Home Counties, capable of setting out, measurement for interim and final accounts, and to assist with rate administration. Previous site experience with contractors essential.
- (7) **GENERAL FOREMAN** to take charge of small and medium-size contracts or to work under agents on larger contracts. Must be fully experienced in all types of civil engineering works, including roads, sewers, bridges, water mains, etc. Applicants, in writing, giving details of training, qualifications, past experience and names of previous employers, enclosing copies of at least two recent testimonials, should be addressed to Personnel Manager, **SURFACE MAINTENANCE, LTD.,** 124 Old Christchurch Road, Bournemouth, Hants.

SHEPARD, HILL AND CO., LTD.

REQUIRE:

**SENIOR AGENTS
SENIOR ESTIMATORS
GENERAL FOREMEN
JUNIOR ENGINEERS
SITE CLERKS**

Permanent positions with excellent prospects for applicants of proved experience and, where appropriate, qualified.—Written applications, with full details, in strictest confidence, marked "R.E.C." to:

SHEPARD, HILL AND CO., LTD.,
25 Central Chambers, W.5.

WANTED, fully experienced PERSON to take over Midlands area office for a company of bulk excavation contractors. Must be capable of pricing and securing contracts in area and supervising same. Write, giving full particulars of experience and salary required, to Box B.B.585, "The Contract Journal."

JUNIOR ENGINEER REQUIRED by company specialising in shuttering and temporary structures. Applicant should be a capable draughtsman and preferably with some site experience. Salary by arrangement. Write brief details to: **GUYREX EQUIPMENT, LTD.,** 25 Craven Street, London, W.C.2.

BOURNEMOUTH.—Long-established engineering company **REQUIRE** a REPRESENTATIVE of exceptional calibre to play key part in expansion of contractors' plant division. Energetic, technically sound, with comprehensive sales experience. Excellent salary opportunities in step with development of division by right man. Age limits 28-40. Non-contributory pension scheme and share interest in accordance with Managing Director. **HUNT AND CO., LTD.,** 51-55 Holdenhurst Road, Bournemouth.

SENIOR QUANTITY SURVEYOR REQUIRED for employment with Cumberland builders. Experience of final accounts and estimates. House available. Write, giving full details of experience and qualifications, and salary required, to Box V.1715, "The Contract Journal."

APPOINTMENTS VACANT

CONTRACTORS' AGENT REQUIRED for the construction of a private estate of about 80 houses in South Devon over a period of about two years. Reply, stating age, experience and salary required, to Box V.1833, "The Contract Journal."

EXPERIENCED AGENTS REQUIRED by contractors specialising in road improvement and sewer works. Permanent position for men able to accept full control through to final bills.—Write, giving full details, to Box V.1828, "The Contract Journal."

CONTRACTORS specialising in road improvement and sewer works **REQUIRE** experienced **FOREMEN and GANGERS** for work in London and Home Counties area. Permanent position.—Write, giving full details, to Box V.1829, "The Contract Journal."

CIVIL ENGINEERS REQUIRED, preferably A.M.I.C.E. or B.Sc., for both site and office appointments. **THE YORKSHIRE HENNEBIQUE CONTRACTING CO., LTD.,** Hennebique House, The Mount, York.

CUBITTS

Applications are invited from suitably qualified MEN for employment in the planning section of the company's main building department. The work includes detailed time and method operational planning and budgetary control of expenditure on plant, labour and materials. The appointments offer excellent opportunities in a progressive organisation to men seeking advancement. Superannuation and other staff benefit schemes are in operation.—Full details of training and experience should be sent to:

**The Personnel Manager (CJ5466),
HOLLAND & HANNEN and CUBITTS
(GREAT BRITAIN), LTD.,**
1 Queen Anne's Gate, London, S.W.1.

RECTOR FOREMEN: Energetic young men **REQUIRED** to erect concrete buildings in North of England. Good pay and prospects for men prepared to accept responsibility and work at distances from depots.—Apply in first instance to Works Director, Atcost, Ltd., Paddock Wood, Kent.

SITE ENGINEER REQUIRED by civil engineering contractors for roadworks and main drainage contracts in Home Counties. A salary range of £850-£1,000 per annum, with good prospects for a keen young man with a confident and experienced setting-out, etc.—Apply in writing, giving details of training and experience, age and previous employers, etc., to Box V.1793, "The Contract Journal."

SENIOR and JUNIOR ESTIMATORS REQUIRED. based on London and Rotherham. Excellent prospects and permanencies with appropriate benefits to applicants of proved experience and ability.—Fullest details, in strict confidence, stating area and for which position applying, marked "D.H.T.", **SHEPARD, HILL AND CO., LTD.,** 25 Central Chambers, W.5.

SITE ENGINEER

REQUIRED for setting out, levelling and general site work by a large south-west London firm of building and civil engineering contractors. The position offered is a permanent one, and a good salary will be paid to the candidate selected.—Please write, giving age, experience and present salary, to:

BOX 995, c/o GEO. MURRAY (ADVC.), LTD.,
Columbia House, Aldwych, W.C.2.

EXPERIENCED STEEL BENDER FOREMAN REQUIRED to take charge of shop involving 40 men. Write Box V.1762, "The Contract Journal."

SITE ENGINEER REQUIRED by firm of civil engineering contractors operating in and around London. Excellent opportunity for young man with a background of general civil engineering works. Permanent progressive position. Pensionable. Good salary offered to right man.—Apply to: **RUDDOCK AND ATCHAMAN, LTD.,** Burford House, Harrow View, Westlestone, Middlesex.

PLANT ENGINEER REQUIRED by old-established building and civil engineering contractors in South-West. Applicants must have had similar previous experience and be capable of organising and controlling the maintenance, repair, erection and movement of modern diesel and electrical plant, including tower cranes. The position is permanent and pensionable. Write, stating age, details of previous experience, and salary required, to Box V.1802, "The Contract Journal."

SENIOR QUANTITY SURVEYOR REQUIRED by building and civil engineering contractors in the Fifehire area. Applicants should have a thorough knowledge of estimating and measurement work. The position is permanent and a house can be provided if required.—Please write, giving full details of past experience, and salary required, to Box V.1811, "The Contract Journal."

QUANTITY SURVEYORS

Vacancies exist on major civil engineering and industrial building projects for experienced:—

CHIEF SITE SURVEYORS

ASSISTANT SURVEYORS

BONUS SURVEYORS and EXPERIENCED CLERKS. Positions are available in various locations throughout Great Britain, which offer excellent prospects and opportunity for permanency and promotion. Pension scheme and life insurance.—Apply, in confidence, giving age, details of education, training, qualifications and experience, with indication of salary required, to:

ROBERT M. DOUGLAS (CONTRACTORS), LTD.,
395 George Road, Erdington, Birmingham, 23.

SENIOR MEASURING SURVEYOR or ENGINEER REQUIRED for the civil engineering division of a large firm of civil engineering and building contractors. The successful applicant will be based at the company's head office in Liverpool and will be required to work under the control of the director-in-charge and the chief contracts manager, and in liaison with agents of the department. He will undertake the preparation of substantial monthly certificates and variations and carry out the negotiations concerned with these. He must therefore have a considerable practical experience as well as several years' current experience in handling and successfully settling final accounts. The salary will be substantial and commensurate with the experience and ability of the applicant. A superannuation scheme is in operation. Applicants should write in the first instance for an application form, which will be treated in strict confidence.—Apply to **THE NORTHWEST CONSTRUCTION CO., LTD.,** Ruthven Road, Litherland, Liverpool, 21, marking envelope "For the attention of the joint managing director," and quoting Reference SMS/1.

APPOINTMENTS VACANT

CIVIL ENGINEERING FOREMAN REQUIRED by a rapidly growing building and civil engineering company, for contracts in the Home Counties. Fully experienced and able men only need apply. Salary commensurate with experience.—Write, giving age, full details of positions held, and salary required, to Box V.1803, "The Contract Journal."

YOUNG MAN (or retired Local Authority Surveyor's Assistant) REQUIRED as ASSISTANT CONTRACTS AGENT/SUPERVISOR for private company, West Midlands. Varied and interesting work, mainly macadam surfacing. Every prospect of permanency and advancement to top level. Company vehicle provided. All applications acknowledged and treated in strictest confidence.—Write, stating experience, age, and salary expected, to Box V.1805, "The Contract Journal."

EXPERIENCED TECHNICAL REPRESENTATIVE REQUIRED for South and Mid-Wales by leading loading shovel manufacturer offering comprehensive range of machines for both earthmoving and industrial applications. Counties to be covered include Pembroke, Carmarthen, Glamorgan, Brecknock, Cardigan, Montgomery, Monmouth, Merioneth, and possibly part of Hereford and Gloucestershire. Full support provided by head office and established service depot situated in area. High basic salary and commission on motor car. Only applicants providing full details of past and present employment will be considered.—Write Box V.1813, "The Contract Journal."

CIVIL ENGINEERS

Vacancies exist on major civil engineering and industrial building projects for experienced:—

AGENTS AND SUB-AGENTS

SENIOR AND JUNIOR ASSISTANTS for planning and site work. Positions are available in various locations throughout Great Britain, which offer excellent prospects and opportunity for permanency and promotion. Pension scheme and life insurance.—Apply, in confidence, giving age, details of education, training, qualifications and experience, with indication of salary required, to:

Personnel Manager,
ROBERT M. DOUGLAS (CONTRACTORS), LTD.,
395 George Road, Erdington, Birmingham, 23.

EXPERIENCED SITE CLERKS REQUIRED for civil engineering contracts in Essex and Hertford. Good salaries. Pension scheme.—Write, giving full details of experience, age, and salary required, to Box V.1812, "The Contract Journal."

CIVIL ENGINEERING CONTRACTORS REQUIRE ASSISTANT CIVIL ENGINEERS for siteworks in the Midlands and South Wales. Opportunities for design experience occur from time to time. Staff superannuation and life assurance scheme (non-contributory) in operation.—Written applications, giving age, qualifications, training and experience, to Box V.1827, "The Contract Journal."

MAJOR Building and Civil Engineering—Contracts Staff Requirements.—National firm of civil engineering and building contractors REQUIRE first-class experienced staff for major works in South Wales area. The following positions: AGENTS, CIVIL ENGINEERS, SETTING-OUT ENGINEERS, QUANTITY SURVEYORS, GENERAL FOREMEN. Permanency, pension scheme, bonus and allowances paid to suitable applicants after proved ability. Own staff advised of these appointments.—Write, stating full particulars of age, qualifications, experience, and present salary, to Box V.1819, "The Contract Journal."

CONCRETE ENGINEER

With administrative experience WANTED in very near future to manage ready mixed concrete business in South Bucks. area.

WRITE BOX V.1788, "THE CONTRACT JOURNAL."

RESIDENT ENGINEER REQUIRED for civil engineering work and reinforced concrete construction for a period of 12 months from August at a site in Cumberland. High salary will be paid to the right applicant.—Write Box V.1785, "The Contract Journal."

AGENTS REQUIRED on permanent staff of public works and civil engineering contractors. Commencing salary around £1,350 for experienced men. Good car allowance, pension scheme, and living allowance when away from home.—Write details to Box V.1799, "The Contract Journal."

OUTSIDE REPRESENTATIVE WANTED by London plant company, mainly for London and Home Counties. Must be fully experienced and should preferably have existing connection.—Write Box V.1791, "The Contract Journal."

JUNIOR ENGINEER REQUIRED for site work on multi-storey flats in reinforced concrete.—Apply, stating salary required, to REED AND MALLIK, LTD., Milford Manor, Salisbury.

SENIOR SALES REPRESENTATIVE

REQUIRED with experience of earthmoving equipment. The position is based in Scotland and offers excellent prospects for an experienced earthmoving sales representative to progress quickly to a senior position within an expanding sales organisation. Applications would be considered from experienced salesmen in other industries allied to earthmoving.—Apply, in writing, in confidence, to:

The Sales Manager,
BOX V.1852, "THE CONTRACT JOURNAL."

REINFORCED CONCRETE DETAILER/DRAUGHTSMEN, with knowledge of building construction, REQUIRED by precast concrete specialists at their head office near Guildford. Varied work with good prospects, superannuation and a commencing salary within the £600-£800 p.a. range, according to qualifications and experience.—Apply to the Senior Structural Engineer, MARLEY CONCRETE, LTD., Peasmarsh, Guildford, Surrey.

EXPERIENCED SITE ENGINEERS REQUIRED immediately for Midlands contract.—Applications, with details of experience and qualifications, to A. JACKMAN AND SON, LTD., 9 Bath Road, Slough, Bucks.

CIVIL ENGINEERS REQUIRED on Scottish hydro-electric contract, to take charge of sections and be responsible for progressing, setting-out and measurement. These posts offer exceptional possibilities for promotion and salary. Varied work with enthusiastic young men with some contracting experience. Remuneration £1,000 to £1,200 per annum.—Write Box V.1837, "The Contract Journal."

APPOINTMENTS VACANT

SITE ENGINEERS REQUIRED for pipelaying and sewage disposal works contracts in the North of England. The posts will be permanent appointments, with a good salary and opportunities for advancement. Written applications, stating age and experience, to Box V.1801, "The Contract Journal."

BUILDERS' MERCHANTS, Westminster, REQUIRE experienced ORDER CLERK to take charge of department. Good progressive position.—Write Box V.1800, "The Contract Journal."

FOREMAN CARPENTER

REQUIRED for multi-storey flats contract in Poplar, E.14. Must have experience in reinforced concrete work and be capable of accurately setting out all work. Excellent conditions for right man.—Apply on site:

THOMAS MCINERNEY AND SONS, LTD.,
St. Leonard's Street Site,
Corner of Teviot Street, London, E.14.

DIRECTOR REQUIRES an experienced CIVIL ENGINEER as a Personal Assistant in connection with a forthcoming expansion programme. The work will be entirely in Scotland and the position probably in Edinburgh. All applicants must have had experience of estimating for big civil engineering contracts, particularly hydro-electric and marine works, and be capable of planning large works in detail.—Write Box V.1836, "The Contract Journal."

AGENT/ENGINEER REQUIRED by expanding civil engineering company, to take complete charge of large sewerage and disposal works contract in Herts. Permanent, progressive employment offered to young, energetic and ambitious Engineer, with top salary, expenses and production bonus.—Written applications, stating age, experience, and salary required, to Box V.1835, "The Contract Journal"; or telephone Windsor 3057.

CONSTRUCTION TEAM REQUIRED by expanding building and civil engineering company. Immediate vacancies for AGENTS, ENGINEERS, GENERAL FOREMEN, SECTIONAL FOREMEN, on major projects in the London area. Top salary, expenses and production bonus offered to experienced, energetic men. Applications in writing, stating age, experience, and salary required, to MACTRAC, LTD., 159 St. Leonards Road, Windsor.

WANTED

Experienced FOREMAN for construction of disposal works at Chigwell, Essex. Best wages and conditions for right man.—Apply, with relevant particulars, to:

THOMAS MCINERNEY AND SONS, LTD.,
27 Clarendon Road, Watford, Herts.,
Telephone: Watford 22277.

AGENTS REQUIRED. Fully experienced in control from start to final certificate working from head office, for schools, factories, houses and similar public and private building. Excellent terms and prospects for right men. Bonus and pension schemes in operation.—Applications to WINTON HAYES, LTD., Biggleswade, Beds.

SITE ENGINEERS REQUIRED for large civil engineering contracts in Midlands and Southern Areas. Good prospects for keen and accurate Engineers. Reply, stating details of age, experience, and salary required, to M. J. GLEESON (CONTRACTORS), LTD., C.E. Department, Harewood House, London Road, North Cheam, Surrey.

SENIOR AND JUNIOR QUANTITY SURVEYORS REQUIRED for large civil engineering contracts in the Midlands and Southern Areas. Excellent prospects for keen Surveyors. Pension scheme, etc.—Reply, stating full details of age, experience, and salary required, to M. J. GLEESON (CONTRACTORS), LTD., C.E. Dept, Harewood House, London Road, North Cheam, Surrey.

AGENT.—Experienced Agent REQUIRED for sewage works contract in West Riding of Yorkshire. Write, giving full details of previous appointments and salary required, Box V.1820, "The Contract Journal."

EXPERIENCED
PRECAST CONCRETE SALESMAN

Urgently REQUIRED to cover South London and Home Counties. This is an excellent opportunity for a first-class man not over 40 years of age versed in all aspects of the industry, and is a position which could lead to sales management.

WRITE BOX V.1849, "THE CONTRACT JOURNAL."

SITE ENGINEER/AGENT REQUIRED immediately at Chichester to construct civil engineering works associated with plant and machinery. Three to four months' contract. Full responsibility. The applicant will receive an attractive salary and should be capable of setting out levels, supervising and organising the construction of reinforced, mass and piled concrete foundations and paved areas.—JOHN HEAVER, LTD., Whvke, Chichester.

THE CROFT GRANITE, BRICK AND CONCRETE CO., LTD., Croft, near Leicester, REQUIRE an ASSISTANT MANAGER to superintend the operation of their new quarry plant at Croft. Applicants should be well educated, energetic men between 25 and 35 years of age, with previous experience of large-scale hard rock quarrying, and be prepared to work similar hours to the operatives. Superannuation scheme. Apply, in confidence, to the Managing Director, giving full details of education and past experience.

A. MONK AND CO., LTD.—CIVIL ENGINEERS for road works and bridges, experienced in projecting, planning, setting out and general site work. REQUIRED for the Bristol/Birmingham motorway. Salary according to age, experience and qualifications. Superannuation scheme in operation. Reply, stating age, previous experience and salary required, to Personnel Manager at the company's head office, Padgate, Warrington, Lancs. Interviews can be arranged at Worcester, Warrington or London. Replies will be treated in confidence.

CIVIL ENGINEER for site planning.—A Civil Engineer, preferably qualified and in his early 'thirties, is REQUIRED to assist the Divisional Planning Engineer, Doncaster. He will be concerned with preplanning for both tenders and secured contracts, and should have some design experience on heavy civil engineering projects.—Please write, giving concise details, and salary required, and quoting 213, to the Personnel Officer, THE CEMENTATION CO., LTD., 20 Albert Embankment, London, S.E.11.

APPOINTMENTS VACANT

PLANT FITTER REQUIRED for civil engineering contractors in East Anglia, for both workshop and site work. Must have had considerable experience with modern plant and excavating machinery.—Written applications, stating age and full details of capabilities, should be sent to Box V.1857, "The Contract Journal."

ESTIMATOR—A Civil Engineer, 28-33, is REQUIRED for estimating and some planning by a section in London office tendering for large and medium contracts. This is a permanent and pensionable position in an expanding organisation.—Applications, quoting 221, should be addressed to the Personnel Officer, THE CEMENTATION GROUP OF COMPANIES, 20 Albert Embankment, London, S.E.11.

FITZPATRICK AND SON (CONTRACTORS), LTD. REQUIRE AGENTS AND SUB-AGENTS experienced in motorway, airfield and road construction. Must be prepared to travel.—Apply in writing, giving details of previous experience, etc., last three employers, and duration of employment with each, to 455 Old Ford Road, Bow, E.3.

LONDON piling and foundation contractors REQUIRE QUANTITY SURVEYOR capable of preparing and agreeing interim and final accounts for reinforced concrete work. Able to run costing department. Good salary and prospects. Pension, life assurance and sickness schemes. Holidays honoured this year.—Write Box V.1862, "The Contract Journal."

EXPERIENCED AGENTS

REQUIRED by contractors specialising in road improvement and sewer works. Permanent position for men able to accept full control through to final bills. Write, giving full details, to:

BOX V.1829, "THE CONTRACT JOURNAL."

TRANSPORT CLERK for contractors' plant yard. Previous experience essential.—Write, stating salary required and previous position held, to Box V.1861, "The Contract Journal."

SITE ENGINEER/GENERAL FOREMAN REQUIRED on large housing schemes for roads, sewers, foundations, etc. Duties involve control of plant, setting-out, use of dumpy level, and complete supervision of all labour other than craftsmen.—Apply for interview to Mr. S. Airey, I. MAUNDERS AND SONS, LTD., 554 Barton Road, Stretford, Lancs. Tel.: URMston 3266.

QUARRY MANAGER REQUIRED to take charge of extensive plant and operating equipment, comprising precast concrete plant, tarmacadam plant and crushing plant. This is a post that requires previous commercial knowledge and only applicants who possess such knowledge and operational experience will be considered. The location of the plant is in South Wales, and the commencing salary will be £1,500 per annum.—Write Box V.1853, "The Contract Journal."

CIVIL ENGINEERING
PLANT MANAGERS and ENGINEERS

RICHARD COSTAIN, LTD. have vacancies for:—
PLANT MANAGERS
Responsible for the control and operation of civil engineering plant valued £1m. to £2m. on major overseas contracts.

PLANT DEVELOPMENT ENGINEERS
To be appointed to the plant development department of the head office. These engineers will be concerned with the assessment of performance of newly developed plant, layout and design of contractors' plant installations, and advice to the operating contractors on the economic use and type of plant for specific applications. Candidates for both categories of appointments, aged 30-45, should possess A.M.I.Mech.E. or equivalent of inter-division, and should have preferably not less than five years' experience in connection with contractors' plant.—Applications should be addressed to:

Senior Personnel Officer,
RICHARD COSTAIN, LTD.,
111 Westminster Bridge Road, London, S.E.1.

EXPERIENCED SITE CLERK REQUIRED for contract at Huddersfield.—Full details of experience, age, salary and expenses required, to R. T. HALEY AND CO., LTD., Cleeveheaton, Yorkshire.

ENGINEER/SURVEYOR REQUIRED for sewerage schemes in East Anglia. Must be capable of setting-out and measuring accurately, with experience of interim valuations and final accounts, and only applicants with this experience need apply.—Full details of such experience, stating age and salary required, should be sent to Box V.1859, "The Contract Journal."

GENERAL FOREMAN REQUIRED to take charge of sewerage contracts in Norfolk/Suffolk, to work under Area Agent. Must have had considerable experience with deep excavations and trenchwork, and be capable of supervising all trades.—Write, with fullest details, stating age, and salary required, to Box V.1858, "The Contract Journal."

NATIONAL CONTRACTORS

Have vacancy in their civil engineering division for **WORKS MANAGER** for prestressed concrete bridge and road contract in Hertfordshire. Applicants must have considerable experience in the capacity of general foreman or works manager on major civil engineering works, with particular reference to reinforced and prestressed concrete construction. The appointment is permanent and pensionable, and carries a salary in the region of £1,500 per annum, plus bonus. Full particulars to:

BOX V.1830, "THE CONTRACT JOURNAL."

SENIOR QUANTITY SURVEYORS.—Old-established civil engineering and building contractor has vacancies for several Senior Surveyors to handle an interesting expansion programme. The positions are permanent, will carry a good salary, and there is a pension scheme.—Applications should state past and present employment, salary, education, qualifications, age, and when available, and addressed to WILSON LOVATT AND SONS, LTD., Clarence Street, Wolverhampton.

ROADS and Bridge Work.—CIVIL ENGINEERING AGENT REQUIRED by national civil engineering contractor, for large contract in Midlands area. Aged 30-40 years, with recent experience of reinforced concrete construction and administration of large contracts. Generous salary, bonus and pension scheme.—Write, stating age, experience, qualifications and experience, to Box V.1855, "The Contract Journal."

APPOINTMENTS VACANT

YOUNG ASSISTANT ENGINEER REQUIRED for mainly site work by civil engineering contractors in West Yorkshire.—Applicants should give full details of age, experience, salary required, to Box V.1621, "The Contract Journal."

ROADS AND BRIDGES WORK—National civil engineering contractor has large contracts in Midlands area and invites applications from the following grades of staff possessing experience with the work: **SETTING-OUT ENGINEERS, GENERAL FOREMEN, OFFICE MANAGERS, SITE CLERKS/TIMEKEEPERS, GANGERS.**—Write, stating experience, and salary required to Box V.1856, "The Contract Journal."

QUANTITY SURVEYOR REQUIRED for reinforced concrete and building contract of two years' duration at Chester.—Apply, giving details of qualifications, experience, and salary required, to F.C. CONSTRUCTION CO., LTD., City Road, Derby.

MEASURING AND COSTING SURVEYOR REQUIRED by building contractors, for Manchester area, on housing estate work.—Write, with full details of age, experience, and salary required, to Box V.1875, "The Contract Journal."

AREA MANAGER—SOUTH WALES

Applications are invited by a building and civil engineering company for the ABOVE POSITION, based at Cardiff. The company has a long and valued connection in South Wales, and the above position will provide an excellent opportunity for one having initiative, progressive personality, and an experienced knowledge of office administration and contract control. Accommodation can be provided.—Applications, with full details, should be addressed to:

BOX V.1850, "THE CONTRACT JOURNAL."

DRAUGHTSMAN, H.N.C. standard, for work in connection with design of industrial buildings and offices. Should have site experience of general building or light civil engineering work. Experience in structural steelwork design desirable but not essential. Situation N.W. London.—Write, giving salary required, to Box V.1867, "The Contract Journal."

BUILDERS GENERAL FOREMAN REQUIRED, for housing estate work. Capable of supervising all trades and programming with minimum supervision.—Write, stating age, experience, and salary, expected, to Box V.1873, "The Contract Journal."

GENERAL FOREMAN REQUIRED by civil engineering contractors for sewage, sewage disposal works, and roads and sewage contracts, mainly in North-West Area. Only first-class, experienced men need apply.—Write, stating age, experience, etc., to Box V.1874, "The Contract Journal."

CONTRACTORS

Specialising in road improvement and sewer works **REQUIRE experienced FOREMEN and GANGERS** for work in London and the Home Counties area. Permanent position.—Write, giving full details, to:

BOX V.1829, "THE CONTRACT JOURNAL."

EXPERIENCED and TRAINEE OFFICE MANAGERS REQUIRED for building and civil engineering contracts. Must be willing to travel. Excellent prospects for men with initiative and drive. Pension scheme.—Full details of experience, age, and salary required, to Box V.1866, "The Contract Journal."

EXPERIENCED and TRAINEE TIMEKEEPERS, COST CLERKS and BONUS CLERKS REQUIRED by prominent firm of building and civil engineering contractors in North-West. Good prospects for men who are keen to make progress.—Write details of experience and age to Box V.1864, "The Contract Journal."

EXPERIENCED BUYER REQUIRED for civil engineering contracts.—Write, stating confidence, stating full details, to Box V.1865, "The Contract Journal."

GENERAL FOREMEN, FOREMAN CARPENTERS, GANGERS and OTHER LABOUR.—WILSON LOVATT AND SONS, LTD., are about to start the construction of the bridges section of the Bristol to Birmingham Motorway and invite applications from men already experienced in this work.—Please apply to Site Agent, Contractors' Office, Wilson Lovatt and Sons, Ltd., Wychbold, Droitwich, Worcestershire.

APPLICATIONS

Are invited to fill the following vacancies:—

(a) **SENIOR CIVIL ENGINEER**

With background of estimation and construction work, with not less than 7 1/2 years' experience.

(b) **JUNIOR ENGINEER**

With not less than 2 1/2 years' experience in setting out and concrete contracts.

(c) **SENIOR QUANTITY SURVEYOR**

With experience in interim and final accounts, for works of civil engineering construction.

All posts carry excellent salaries. Pension and bonus schemes in operation.—Write or telephone for appointment to:

Contracts Director,
LOMOUNT CONSTRUCTION, LTD.,
40 Piccadilly, London, W.1.

CONTRACTS SUPERVISOR REQUIRED by medium-sized firm of reinforced concrete specialists in the Midlands. Successful applicant will be based at head office and will be responsible for the supervision of a number of contracts in various parts of the country. Car provided; good salary; pension scheme. Write, giving details of experience, etc., to Box V.1854, "The Contract Journal."

BUILDING ESTIMATOR REQUIRED for interesting and varied tendering for contracts over a wide range of price. Knowledge of modern methods of construction essential. The position is permanent and carries a substantial salary and bonus. Entry into the company's superannuation scheme will be arranged at the end of 12 months' service.—Applicants should write, stating age, qualifications, experience to date, etc., to the Chief Estimator, THE MITCHELL CONSTRUCTION CO. LTD., Wharf Works, Peterborough, where applications will be treated in the strictest confidence.

CIVIL ENGINEER REQUIRED, with previous site experience, to train for a head office appointment as an Estimator. The position is permanent and carries a substantial salary and bonus. Entry into the company's superannuation scheme will be arranged at the end of 12 months' service.—Applicants should write, stating age, qualifications, experience to date, etc., to the Chief Estimator, THE MITCHELL CONSTRUCTION CO. LTD., Wharf Works, Peterborough, where applications will be treated in the strictest confidence.

APPOINTMENTS VACANT

SITE ENGINEERS REQUIRED for civil engineering and building contracts involving reinforced concrete and multi-storey construction. Present contracts are in Yorkshire and South of England but applicants should be prepared to work anywhere in U.K.—Please reply, stating salary required, to REED AND MALLIK, LTD., Milford Manor, Salisbury.

BUILDING SUPERVISOR CLERK REQUIRED in N.W. London to deal with correspondence, progress records, drawings and plans connected with adaptation and building work, for a manufacturer operating with factories throughout U.K. Duties include liaison with contractors and general assistance to surveyor's office. Previous experience of similar duties desirable. Commencing salary in region of £600/£650 p.a.; pension scheme.—Write Box C1371 L.P.E., Romano House, 399/401 Strand, London, W.C.2.

TWO TOWER CRANE DRIVERS WANTED for 18 months' contract in Middle East.—Write for terms and conditions, stating age and experience, to Box V.1890, "The Contract Journal."

EXPERIENCED AGENT, aged 30 to 40 years, REQUIRED for gas and water mainlaying contracts in London and Home Counties. Permanent position offered to one with every opportunity for suitable applicant. Non-contributory pension scheme.—Write, stating age, experience, and salary required, to R. E. DOWRA, LTD., Llandovery Road, Wembley.

CONTRACTORS' SITE STAFF

REQUIRED for dam construction contracts in Central and North Wales, including:

GENERAL SUPERINTENDENTS and

GENERAL FOREMEN

With some years' experience in similar positions on medium/heavy civil engineering contracts.

FOREMAN JOINER

With shuttering experience on heavy concreting.

Men up to 45 years of age should write, stating age, experience and salary required, to:

The Personnel Office,
THE CEMENTATION CO., LTD.,
20 Albert Embankment, London, S.E.11.

GENERAL ROADWORK, LTD.—Applications invited for appointment in the plant hire department at our head office at Mitcham Road, Croydon, Surrey. The position offered is one with every opportunity of advancement with our rapidly expanding plant hire company. Preference given to ambitious young men with previous experience in a similar capacity.—All applications should be addressed to the Managing Director, General Roadwork, Ltd., 616 Mitcham Road, Croydon, Surrey.

ASSISTANT TO BUYER REQUIRED for a London company of civil engineering contractors with office in Staines area. Experience of materials and sub-contract quotations in connection with works of civil engineering construction; some knowledge of plant would be an advantage.—Please write, giving details of experience and salary required, to Box V.1897, "The Contract Journal."

EXPERIENCED CLERK OF WORKS REQUIRED at once for precast concrete office building 50,000 sq. ft. at Harrow. Contract just commenced. Contract period 9 1/2 months. Salary £800 p.a. plus 10% according to experience.—Apply, giving full particulars of experience, to G.R.C., 18 Upper Brook Street, W.1. Mayfair S855.

ENGINEER/SUB-AGENT, aged 28/35, REQUIRED for civil engineering contract in London area. Experience essential in reinforced concrete, excavation, and complex pipework. Must have ability to supervise outside staff and assist Agent in programming work. Permanent position with pension scheme for right man.—Write, stating age, experience and salary, to Box "R.T." c/o J. W. Vickers and Co., Ltd., 7 Great Winchester Street, London, E.C.2.

SIMON-CARVES, LTD.

Invite applications from MEN experienced in designing timber or other types of formwork, for vacancies in the formwork and temporary works design section of their building and civil engineering department. These posts are permanent and pensionable, with prospects of promotion with expansion of work. Salaries up to £1,000 p.a. according to ability and experience.—Send brief relevant details, quoting Ref. XO.50, to:

Staff and Training Division,
SIMON-CARVES, LTD.,
Cheddle Heath, Stockport, Cheshire.

GEORGE WIMPY AND CO., LTD., invite applications from men who have completed a full-time technical course and obtained Higher National Diplomas or L.I.O.B., for appointment as TECHNICAL ASSISTANTS in contract department dealing with planning and organisation of building contracts. Work entails the preparation of schedules and programmes, and general contract administration under supervision. Progressive posts, with opportunity of increasing responsibilities.—Written applications, giving details of age, experience, qualifications, and salary required, to Establishment Officer, 27 Hammersmith Grove, London, W.6. (Ref. 856.)

GENERAL FOREMAN REQUIRED for estate development work in South Wales. Initially, he would take charge of a small contract at Carmarthen, but would later be expected to move to Newport, where a large-scale and difficult development would be undertaken. The company has other large developments in preparation in South Wales and the continuity of employment is guaranteed to a reliable and experienced man. Only Foremen with considerable experience of this type of work should apply.—Write 348/350 Kilburn High Road, London, N.W.6, marked in the first instance to DAVIS CONTRACTORS, LTD., "KL/CE."

ESTIMATOR (Assistant).—SCOTTISH SPECIAL HOUSING ASSOCIATION, LTD., invite applications for this superannuable appointment in the Direct Labour Organisation. Applicants should possess a wide experience of competitive estimating for housing schemes, including multi-storey flats and for roads and sewer construction. Salary scale £780-£1,135 p.a. with placing for experience. A house may be available if required.—Forms of application, with full particulars of the post, are obtainable from the Secretary, 15-21 Palmerston Place, Edinburgh, 12.

A VACANCY exists with well-known building and civil engineering contractors in West Middlesex for a **SENIOR SURVEYOR** with sound knowledge and experience of interim valuations and final accounts. A salary range of £1,250/£1,500 will be offered to the applicant of proven ability, possessing initiative and drive. Pension and bonus schemes in operation. Write full particulars to Box V.1698, "The Contract Journal."

APPOINTMENTS VACANT

THE LAING HOUSING COMPANY invites applications for the following vacancies in their head office at Queensbury: **ARCHITECTURAL ASSISTANT** for varied and interesting domestic design and detailing. Intermediate R.I.B.A., or equivalent; **ASSISTANT QUANTITY SURVEYOR**, for taking-off, estimating, site measurement and interim valuations. Intermediate I.Q.S., or equivalent. These positions are permanent and pensionable. Salary commensurate with qualifications and experience. Assistance given to those studying for a recognised qualification. Sports and social club facilities.—Applications in writing to Personnel Manager (H.S.), John Laing and Son (Holdings), Ltd., London, N.W.7.

OUTSIDE REPRESENTATIVE WANTED by London plant company, mainly for London and Home Counties. Must be fully experienced and should preferably have existing connection.—Write Box V.1863, "The Contract Journal."

For Advertisements received too late for classification see page 689

APPOINTMENTS WANTED

PLANT MANAGER REQUIRES POSITION of responsibility with civil engineering company. Fully experienced in control of mechanical plant, supervision of site servicing, operators, workshop repairs and stores administration. Resident S.W. costs man. Resident London area.—Write Box W.1732, "The Contract Journal."

REPRESENTATIVE and CONTACTS MAN with connections in London and Home Counties **SEEKS POSITION** with progressive company. Experience covers sales, hire and earthmoving. Resident S.W. London.—Write Box W.1733, "The Contract Journal."

COMPANY ACCOUNTANT (Inc.), with several years' experience of contractors' work overseas, **DESIRES** to hear of a **SUITABLE VACANCY ABROAD**.—Write Box W.1870, "The Contract Journal."

CHARTERED CIVIL AND STRUCTURAL ENGINEER, with wide experience in civil engineering and building construction from engineer's point of view, **REQUIRES APPOINTMENT** in which he will obtain intensive training as **AGENT/CONTRACT MANAGER**.—Write Box W.1870, "The Contract Journal."

AGENT (39), seven years' experience Middle East and West Africa, **SEEKS CHANGE**, home or abroad. Specialised experience roads and airfields. Write Box W.1876, "The Contract Journal."

MARRIED MAN, 31, 10 years' experience B. and C.E. contractors, invoices, stores, materials, plant, checking, office administration, **SEEKS SETTLED PROGRESSIVE POST**. Anywhere except London. Write Box W.1898, "The Contract Journal."

SURFACING MANAGER SEEKS PROGRESSIVE POSITION with go-ahead firm. Can offer wide experience in manning and moving of hot asphalt, bituminous and tarmac areas carpets. Also able to control over wide areas all sizes of contracts from estimating stage until finalisation. Write Box W.1899, "The Contract Journal."

WORK REQUIRED

FOR HIRE IN MIDLANDS, new Blaw Knox PF90 PAVING MACHINE, concrete with experienced operators (and gang) if required. Sub-contract work or price per ton for material laid (Macadam, Asphalt, Wetmix, Leamix Concrete, etc.). For full details, apply: CAMMIDGE ROAD CONSTRUCTIONS, LTD., 14/26 Henrietta Street, Coventry. Tel: Coventry 88473.

WANTED, FIRE or CONTRACT WORK for modern, hire of DW21s, D9s and D8s. Apply: BRODERICK AND RYAN, LTD., 421 Nottingham Road, Ilkeston, Derby. Tel: Ilkeston 4381/2.

ALLEN OXFORD GRADERS FOR HIRE. GRASSPALLE, LTD., Hampton Hill, Middlesex. Telephone: Molesey 4343.

BULK EARTHMOVING, direct contract or sub-contract. Also **BULLDOZERS and SCRAPERS** for hire. FRANK CAMMIDGE ROAD CONSTRUCTIONS, LTD., Leighton Buzzard, Beds. Leighton Buzzard 3351.

WANTED, EXCAVATION, SITE CLEARANCE and DEMOLITION WORK. R. BARKER (PECKHAM), LTD., New Cross 3337.

MOTOR BOAT OWNERS REQUIRE CONSTRUCTIONAL WORK, ATTENDANCE, PERSONNEL, GOOD TOWAGE, labour supplied.—Apply: THOMAS BROS., 62 Sussex Road, East Ham, London, E.6. Telephone: GRA. 6697/3151.

SITE CLEARANCE, BULK EXCAVATION. JAMES AND CO., LTD., Trading Estate, Slough. Telephone: Slough 20361—Ext. 4.

SAM BOOTH, LTD., Perrymount Chambers, 1126 and 1258 SUB-CONTRACT or HIRE: D9s, with Bulldozer and Caterpillar 463 Scrapers.

TURFING, SEEDING, LANDSCAPING, C.E. contracts. High-class workmanship at reasonable rates. COWELL AGRICULTURAL CONTRACTORS, Farington, Preston, Lancs. Telephone: Leyland 21243.

EARTHMOVING, LEVELLING, LAND DRAINAGE, RECLAMATION, etc. Contract or Surface Specialists. SURFACE MAINTENANCE SERVICES, LTD., 124 Old Christchurch Road, Bournemouth. Tel. 24673. Branches throughout the country.

IF TREES, ROOTS or UNDERGROWTH feature in their **ECONOMICAL DISPOSAL**, we would be pleased to quote for their **ECONOMICAL DISPOSAL**. BAGSHOT SAWMILLS, LTD., 32 London Road, Camberley, Surrey. Telephone 14.

FOR HIRE, One Drott and Six TIPPER LORRIES. SITE CLEARANCE. Direct or sub-contract. I. W. DOYE AND CO., Demolition Contractors, 188 Plumstead High Street, S.E.18, Woolwich S.18.

UPROOTING—TREES, STUMPS, HEDGES, etc. We have the most experience and all modern equipment.—T. GRAVESON, LTD., Warton, Carnforth, Lancs. Tel: Carnforth 381 and 382.

IF GRADING, SEEDING, TURFING and PLANTING form part of your CONTRACT, we will be pleased to quote you.—HOLDROP, 159 Bells Hill, Barnet. Telephone 9111.

CONTROLLED EXPLOSIVES, LTD., specialise in the fragmentation of mass and reinforced concrete inside or outside buildings. Demolition of bridges and chimneys, mass rock, trenching, sewage beds, engine beds, etc. and deep drilling for quarries. Particulars from 11 Church Street, Oldbury, Birmingham. Telephone: BROADwell 3117.

LEOPOLD FARMER & SONS
Industrial Property Specialists
AUCTION SALES
 &
VALUATIONS
Surveyors, Valuers & Auctioneers
46 GRESHAM STREET E.C.2

WORK REQUIRED

EXCAVATION SUB-CONTRACTS. Technical staff available to analyse, programme and price complex projects. Particular attention given to finish and compaction. D9, D8, TD18 and TD14 scrapers, excavators, loading shovels and Lorries available with competent and imaginative supervision for execution of work.—**DICK HAMPTON**, Broadview Farm, Blacknest, Alton, Hants. Tel.: Bentley 2241.

SPECIALISED EXPLOSIVES SERVICES.—U.K. and OVERSEAS MOBILE UNITS coverage on extensive strong points, sea walls and dangerous structures, etc.—124 Old Shoreham Road, Southwick, Sussex. Tel.: Southwick 3791 or Shoreham 4193.

EARTHMOVING, EXCAVATION, CONTRACT OR HIRE. Bulldozers, Scrapers, Tractorloaders, Tractors, etc.—Phone: Chiswick 8511/2, Maldstone 7294/5, 6, TRACTORS HIRE (CHISWICK), LTD., 300 Chiswick High Road, W.4.

BULK EXCAVATIONS, any quantity quoted for. Own plant and lorries.
COFF AND SON (EXCAVATIONS), LTD., Buckhurst Hill, Cheshire, Ascot, Berks. Ascot 1026/7/8.

BULK EXCAVATIONS AND SITE WORKS undertaken. DIRECT or on SUB-CONTRACT basis. Quotations given for large or small contracts anywhere.—**S. AND L. BULL BROS., LTD.**, 126A High Street, Winchester. Telephone: Winchester 2264.

ERECTION AND DISMANTLING. Structural Steelwork and all types of Prefabricated Components. Speedy and efficient service.—**ERECTORS**, 80 Bulwell Crescent, Cheshunt, Herts. Waltham Cross 22564.

EXCAVATIONS, SITE CLEARANCES, DEMOLITION AND PLANT HIRE, SUB-CONTRACT WORK WANTED, any area.—**D. W. STONE, LTD.**, St. Leonards Road, Hove, 3, Sussex. Tel.: Hove 46396.

FOR HIRE—MIDLANDS AREA: D4s, 10RBs, COMPRESSORS, DROTS, KINGS, MORTON EXCAVATORS, LTD. Telephone: Sedley 2513.

BULK EARTHMOVING, OVERBURDEN STRIPPING, EXCAVATIONS for roads, airfields, etc., with large fleet of Caterpillar D8 and D7 Tractors. Keenest prices for work anywhere in the country.—**CONTRACTORS' PLANT**, Malring CO., LTD., Barkby Road, Leicester. Tel.: Leicester 66631 (4 lines). **NORTHERN REPRESENTATIVE:** 91 Shaw Road South, Shaw Heath, Stockport. Telephone: Stockport 3082.

EARTHMOVING in south-west carried out by modern fleet of machines—hire or contract. Tractorloaders, motor scrapers, bulldozers, excavators and mobile cranes.—**GRANGE PLANT, LTD.**, Honiton, Devon. Telephone: Broadhembury 330-555.

SITE CLEARANCE EXCAVATION. 230 Tottenham Court Rd., London, W.1, Lan. 7833-5.

THOMAS TINSLEY AND SON, LTD. Engineers, Iron and Brass Founders, Zetland Foundry, Loftus, Saltburn, Yorks.—Inquiries invited for ROADWORK CASTINGS and other FOUNDRY work. Quotations given at competitive prices. Prompt attention. Good workmanship.—Telephone: Loftus 73.

INVENTIONS

INDUSTRIAL ENGINEERS OF REPUTE invite, in strict confidence, DETAILS OF INVENTIONS with object of manufacturing and world distribution. Write Box K.L.517, "The Contract Journal."

DIRECTORSHIP

FULLY qualified CIVIL ENGINEER, experienced all aspects contract management. OFFERS SERVICES to firm in East Scotland as DIRECTOR (or executive in first instance). Write Box X.1887, "The Contract Journal."

AGENCIES

COMMISSIONED REPRESENTATIVE REQUIRED to cover South-West England and South Wales, for a company with constructional, fabrication and foundry division. Previous experience desirable. Preference will be given to applicants residing in the Southampton area.—Write, giving age and details of past and present agencies, to Box X.1889, "The Contract Journal."

PROFESSIONAL SERVICES

TECHNICAL ESTIMATING SERVICES introduced by R. J. CARR. The only service of its kind in the country.—Westleigh House, 42 Coombe Road, New Malden, Surrey. Tel.: Malden 8640.

CIVIL ENGINEERING CLAIMS.—Director/Consultant Engineer, with long and varied experience in high-level negotiation of contractors' claims, OFFERS SERVICES on a fee/commission basis. Write Box X.1058, "The Contract Journal."

CLAIMS CONSULTANT provides a CONFIDENTIAL CLAIMS SERVICE covering every type of civil engineering work. Advice on selection of possible claims, formulation, negotiation, etc., in accordance with contractor's individual requirements. Write Box X.1058, "The Contract Journal."

FOR SITE PHOTOGRAPHY AND PROGRESS PICTURES in the Midlands area, contact: **CASTLE HILL STUDIO**, 4 Castle Hill, Waingate, Sheffield, 1. Telephone 29947.

SALES BY TENDER**THE NORTH RIDING OF YORKSHIRE COUNTY COUNCIL.**

The above Council have for SALE Two 1950 1,000-gallon TARSPRAYING MACHINES mounted on 1934 Albion Petrol Engine chassis, and Spares. May be inspected at the Highway Depot, Boroughbridge Road, Northallerton. Offers for either or both vehicles must be enclosed in envelopes, marked "Tarspraying Machine," and sent to the CLERK OF THE COUNTY COUNCIL, County Hall, Northallerton, by 23rd MAY, 1960.

COUNTY BOROUGH OF BURTON-UPON-TRENT.**SALE OF SURPLUS PLANT.**

The CORPORATION have for DISPOSAL and invite OFFERS for the FOLLOWING:—

- (a) Dennis Gully Emptyer, 1938.
- (b) Marshall 12-ton Road Roller, 1937.
- (c) Millars Asphalt Mixing Plant, 1938.

The items are to be disposed of as they stand, and purchasers must remove them from the site at their own expense.

Appointment to view from the Borough Surveyor, from whom further particulars and Form of Tender can be obtained.

Offers for all or any of the items and Tender, in a plain sealed envelope, endorsed "Surplus Plant," to be delivered to the undersigned not later than 5 p.m. on MONDAY, the 23rd May, 1960.

The Corporation do not bind themselves to accept the highest or any offer, and reserve the right to accept offers for individual items. Parties tendering must do so at their own expense.

H. T. MEADES,

Town Clerk.

Town Hall,
 Burton-upon-Trent,
 11th May, 1960.

ROYAL BOROUGH OF NEW WINDSOR.**LEWIN ROAD SWEEPER/WASHER.**

For SALE, a 1949 Lewin Road SWEEPER/WASHER on Thornycroft chassis. Inspection at the Corporation Depot, 16 Alma Road, Windsor, by appointment. Offers, in writing, to the Borough Engineer, Kipling Memorial Building, Alma Road, Windsor, by 30th MAY, 1960.

J. E. SIDDALL,

Town Clerk.

BOROUGH OF WANSTEAD AND WOODFORD.

FOR SALE—VEHICLES:
 One 1949 Karrier Bantam Tipper.
 One 1950 Karrier Bantam Tipper.
 One 1950 Ford Swt. Box Van.

Conditions of Sale and Tender Form can be obtained from the BOROUGH ENGINEER, Municipal Offices, High Road, Woodford, E.18.

CITY OF LEEDS.

OFFERS are invited for the FOLLOWING SECOND-HAND ELECTRO-MECHANICAL TRAFFIC CONTROLLERS (by A. T. and E. Co., Ltd.), suitable for 200/500-Volt A.C. supply. The equipment, which is suitable for highway and public works contractors or for experimental purposes, is in good working order, and may be inspected, by prior appointment, at the City Lighting Department, Springfield Street, Leeds, 12 (Tel. 20351/3). Items may be sold singly.

Five Units—2-phase Controller with adjustable timings giving normal traffic sequences (i.e., red-red/amber-green), or can be readily adapted to show red-green with adjustable "all red" period between changes.

Two Units—3-phase Controllers as above, with third phase becoming an "extended green" for turning traffic.

Also available for use with the above:—Seven Waterproof C.I. Cabinets, 5ft. high x 15in. square, fitted with external manual push-button controls.

12 Assorted 3-Aspect Lanterns.

Each offer, enclosed in a plain envelope, endorsed Traffic Controllers, must be sent to the Town Clerk, Room 57, Civic Hall, Leeds, by the 31st MAY (12 Noon).

ROBERT CRUTE,

Town Clerk.

Civic Hall,
 Leeds, 1,
 31st May, 1960.

EAST SUFFOLK AND NORFOLK RIVER BOARD.**DISPOSAL OF SURPLUS PLANT.**

The Board has for DISPOSAL the FOLLOWING ITEMS of PLANT, for which offers are invited:—

- 6in. Blackstone Pump, with Lister Diesel Engine.
- 12in. Drysdale Pump, with Albion P/P Engine.
- Beresford-Stork Trailer Pump, with Austin Petrol Engine.
- Muir-Hill 3 cu. yd. Dumper, with Fordson P/P Engine.
- Smith 3 1/2 Dragline Excavator, with Fowler Diesel Engine.

Further particulars and Tender Forms may be had on application to the Board's Chief Engineer, K. E. COTTON, M.B.E., and Tender Forms are to be received by me by 9 a.m. on the 9th JUNE, 1960.

S. VINCENT ELLIS,

Clerk of the Board.

"The Cedars,"
 Albourne Road,
 Norwich.

BUSINESSES—SALE OR WANTED

WANTED TO PURCHASE by London plant company, similar organisation in Midlands or Home Counties.—Brief details first instance to Box X.1790, "The Contract Journal."

LAND AND PROPERTY

BUILDING SITE for SALE, Home Counties. Planning consent, 200 residential units. Price £80,000. Write Box L.L.389, "The Contract Journal."

INCORPORATED—CONCRETE BLOCK MANUFACTURING COMPANY with 4-acre site and extensive range of premises. Planning permission has been obtained for the erection of a concrete batching plant. Full particulars, together with trading accounts, may be obtained from the Agents, WILLIAM H. BROWN AND SON, Chartered Auctioneers and Estate Agents, Northgate House, Sleaford (Tel. 447/8); and 14 Wide Bargate, Boston (Tel. 3620).

FULLER HORSEY

SONS & CASSELL

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OF

PLANT, MACHINERY AND**FACTORIES**

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Rothmans

SALE BY AUCTION

By Order of Messrs. F. R. Evans (Leeds), Ltd.
 WESTLAND ROAD DEPOT, LEEDS, 11.

FINAL CLEARANCE SALE.

WALKER, WALTON AND HANSON
 will sell by AUCTION on THURSDAY,
 26th MAY 1960.

CIVIL ENGINEERING PLANT AND EQUIPMENT, VEHICLES, TRAILERS AND STORES, ETC.

(approx. 410 lots)

comprising—
 Three Lima 1201 EXCAVATORS, rigged either Face Shovel or Dragline; Link Belt Speeder CRANE, with Dragline Equipment; Ruston-Bucyrus 10RB EXCAVATOR, rigged Backcrane; Ruston-Bucyrus 37RB EXCAVATOR, rigged Dragline; Tournapull Super C 13 cu. yd. REAR DUMP TRUCKS; Koehring MOTORISED SCRAPERS; 25 TOWED SCRAPERS, by Blaw Knox, Le Tournau, Onions, Vickers, etc.; Caterpillar ANGLEDOZERS, BULLDOZERS and TRACTORS (including D4s, D7s and D8s); Allis-Chalmers HD14 TRACTORS; International TD18 TRACTOR; Blaw Knox 3-tine ROOTERS; Galtion Model 101 MOTOR GRADER and GRADER CHASSIS; Caterpillar D13000 Trailer-mounted COMPRESSOR; Aveling-Barford 4-ton ROAD ROLLERS; Barber-Greene Model 866 GRADATION UNIT; Caterpillar Diesel GENERATING SETS; VEHICLES and TRAILERS (including Dennis Max Trucks, A.E.C. Matadors, White and F.W.D. Chassis and Cabs, Multi-wheeled 40-ton Transporter Trailers, Trailmobile 20-ton Trailer); also Caterpillar and other PLANT SPARES, including Winches, Control Units, Angle and Bull Dozer Blades, Booms, Skimmer and Face Shovel Buckets, etc.; Centrifugal and Deep Well Diesel WATER PUMPING SETS; LIGHTING SETS; PAINT; STARTER MOTORS; DYNAMOS; ARMATURES; ENGINES; RADIATOR HOSE; VEHICLE SPARES; TYRES and INNER TUBES, etc.

Sale to commence at 10.30 a.m.
 On view 16th-20th and 23rd-25th May, from 9 a.m.-5 p.m., and also on the morning of Sale. Catalogues obtainable from the Auctioneers, Messrs. Byard Lane, Bridlesmithgate, Nottingham. Telephone: Nottingham 54272 (7 lines).

ACCOMMODATION

CARAVANS TO RENT for men with families. Rent £7 to £17 per month. Delivery anywhere. **LANDSMAN'S SERVICES**, Buckden, Huntingdon. Telephone: Buckden 287.

ACCOMMODATE YOUR EMPLOYEES in a cosy 4-berth CARAVAN, fully equipped with heating, lighting, cooking and washing facilities. Hire rates from 50/- per week for four persons. Caravans delivered anywhere.—**NORTHERN CARAVAN DISTRIBUTORS**, Handforth, Ches. Tel.: Mercury 4255/6.

DIVING

DIVERS IMMEDIATELY AVAILABLE. Welding, cutting, construction, etc. Any part of world. **UNDER WATER WELDERS AND REPAIRERS, LTD.**, Cardiff. Tel. 29631. (After hours: Penarth 3813.)

COMPLETE CONTRACTS UNDERTAKEN, including the following: Design, Survey, Craft available, Pile Driving, Compressors, Cement and Grouting Machinery, Underwater Cutting, Welding, etc., etc. Divers and Plant hired if preferred. Rates from £7 7s. per day. Immediate and efficient teams available anywhere in the world. Qualified marine surveyor on staff.—For Diving Contracts, consult: **THE MARTIN WELDING AND CUTTING CO., LTD.**, Dartford, Kent. Tel.: (day) Dartford 24139; (night) Farningham 2452.

HORTICULTURAL

TOP SOIL—200,000 cubic yards available, delivered in large and small quantities. Soil supplied ex site in approved cases.—**LATHAM AND CO. (CONTRACTORS) LTD.**, Westward House, Guildford Rd., Lightwater, Surrey. Bagshot 2037 and 2400.

A KEEN QUOTATION for your TURFING, SEEDING and HEDGING CONTRACTS: London and Home Counties.—**R. J. ENSTONE & SON, LTD.**, Head Office: 34 Alma Rd., St. Albans. (St. Albans 55528.)

TURFING—SEEDING—HEDGING. Quotations for all branches of landscape work, anywhere in the U.K. C.E. contracts a speciality. **WEBSTER BROS.**, Horsforth, Leeds. Horsforth 2364.

MASSEY-FERGUSON 65 TRACTORS for HIRE, also comprehensive range of ATTACHMENTS, including Tipping Trailers, Loaders, Rotavators, and all Land Cultivation Implements. Turf-cutting Machines, etc. C.E. contractors catered for.—**RINGWAY CONTRACTORS, LTD.**, Horsforth, near Leeds. Telephone: Horsforth 4805.

ROTARY CULTIVATORS available for HIRE or CONTRACT WORK. Grading, Levelling, Earthmoving undertaken.—**JAMES COOPER, LTD.**, 25 Kensington Church Street, London, W.8. Western 3412.

TURVES—Machine-cut, 3ft. x 1ft. close mown, weed-treated, 60/- per 100. Keen trade rates. We would be pleased to quote for your levelling and tamping. **E. R. RANCE, LTD.**, Sheenot Lane, Watford. Telephone: Garston 2725.

SOILING, SEEDING AND TURFING. Site Clearance, Excavation and Levelling Work undertaken in any part of the U.K. at competitive prices.—**GILLIAM**, Purley, Surrey. UPlands 9222/6.

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FOR EVERY APPLICATION

Of advanced design Blaw Knox Concrete Buckets ensure high operating efficiency. They are robustly constructed enabling them to stand up to the most arduous operating conditions.

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for general building construction

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for low slump concrete

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for mass concrete work

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for mass concrete work

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for work on jetties, piers, etc.

For full details write for Publication 296

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INDEX TO ADVERTISERS

A	Page	E	Page	P	Page
A.B.C.D. (Raynes Park), Ltd.	636	Elstree Engineering Services, Ltd.	690	Parker, Frederick, Ltd.	626, 627
A.C.E. Machinery, Ltd.	663	English Electric Co., Ltd.	xvii	Pearson, T. B., & Sons	xvi
Acrow (Engineers), Ltd.	ilic, ilic, vic, vilic	English Tools, Ltd.	xa	Peel, H., Ltd.	743
A.E.C., Ltd.	vilib, xli	Euclid (Great Britain), Ltd.	Cover vi & vii	Pegson, Ltd.	671
Allam, E. P., & Co., Ltd.	628, 630			Permanite, Ltd.	ic
Allen, John, & Sons (Oxford), Ltd.	722			Personnel Administration, Ltd.	672
Armstrong-Whitworth & Co. (Pneumatic Tools), Ltd.	ix			Petter, Ltd.	755
Arup & Arup, Ltd.	xvi	Fodens, Ltd.	733	Phoenix Shovel Co., Ltd.	664
Atlas Copco (Great Britain), Ltd.	637	Ford Motor Co., Ltd.	659, 660, 661, 662	Pike, George, Ltd.	723
		Foster, Arthur, Construction Engineers, Ltd.	638	Pilot Works, Ltd.	753
				Priest, B., & Sons, Ltd.	656
				Priestman Bros., Ltd.	iv
B		G		R	
Bamford, J. C., (Excavators), Ltd.	ia	Gazeway Plant Hire, Ltd.	vb	Raylor, J. W., & Co. (Engineers), Ltd.	754
Barford (Agricultural), Ltd.	xiv	Gibson, Arthur I., & Co., Ltd.	742	Rapid Metal Developments, Ltd.	xvi
Barnards, Ltd.	762	Goodenough Pumps, Ltd.	ivb	Record Tower Cranes	664
Batley, Ernest, Ltd.	740	Goodyear Tyre & Rubber Co., Ltd.	665	Richards, Charles & Sons, Ltd.	756
Benford, Ltd.	625	Grayston Plant & Engineering Co., Ltd.	650	Richards, H., & Co., Ltd.	634
Beresford, James, & Son, Ltd.	672	Greenham Equipments, Ltd.	744	Road Machines (Dravton), Ltd.	652, 653
Blackwell, C. A., (Contracts), Ltd.	654	Gwynnes Pumps, Ltd.	730	Rogers, E. & E.	651
Blackwood Hodge	Cover iii			Romford Portable Buildings, Ltd.	638
Blaw Knox, Ltd.	vilib, 688	H		Rowley Plant Co., Ltd.	636
Bowmaker (Plant), Ltd.	ivc, vc	Hawley Plant, Ltd.	632		
Boydell, E., & Co., Ltd.	ib	Hills Plant, Ltd.	739		
Branch, Jack, (London), Ltd.	638	Holman Bros., Ltd.	669		
British Association of Field & Sports Contractors	630	I		S	
British Cellophane, Ltd.	656	Ibbett Engineering Co., Ltd.	735	Saville (Tractors), Ltd.	i
British Vacu-Lug, Ltd.	742	Industrial Pumps, Ltd.	656	Sayvool Co.	xix
Broadbent, Robert, & Son, Ltd.	xli'a	International Harvester Co. of Great Britain, Ltd.	Cover i and viii	Sellers, H., (Leeds), Ltd.	636
Broadbent Bros. (Nottingham), Ltd.	636			Selwood, William R., Ltd.	740
Broom & Wade, Ltd.	vilib	J		Sharp Jones & Co., Ltd.	724
B.T.R. Industries, Ltd.	xii	Johnson, C. H., (Machinery), Ltd.	655	Shell-Mexphalte	xvii
Buckton, Ltd.	xx	Jones, William, Ltd.	638	Shimms, W. J., Sons & Cooke, Ltd.	760
		K		Smith, Thos., & Sons (Rodley), Ltd.	Cover iv
C		Kirkby & Sons (Sales), Ltd.	638	Sparrow, G. W., & Sons, Ltd.	634
C. & A. Plant Services, Ltd.	638	L		Spencer Wire Co., Ltd.	759
Caldwells, Ltd.	760	Le Tourneau-Westinghouse Co.	631	Steel Fabricators (Cardiff), Ltd.	lii, liii
Carroll, P. J.	672	Leverton, H., & Co., Ltd.	xliia	Stent Precast Concrete, Ltd.	xviii
Cartruk, Ltd.	630	Liner Concrete Machinery Co., Ltd.	632, 762	Survey & General Instrument Co., Ltd.	754
Case, J. J., Ltd.	734	Liverpool Borax Co., Ltd.	640	Symes (Plant Sales), Ltd.	638
Caswell Cranes & Erection, Ltd.	738	Low, James F., & Co., Ltd.	xli	Swiftplan, Ltd.	757
Cement Marketing Co., Ltd.	vilib	Lumley (Plant), Ltd.	vili		
C.E.T. (Plant), Ltd.	640	Lyon, Arthur & Co. (Engineers), Ltd.	732	T	
Chain Link Fencing, Ltd.	754	M		Tangyes, Ltd.	664
Chamberlain Plant, Ltd.	754	Mabey & Johnson, Ltd.	725	Tarmac Roadstone, Ltd.	Cover v
Clifton, I., & Sons, Ltd.	xx	Magnet Joinery, Ltd.	761	Thorn, J., & Sons, Ltd.	636
Cohen, George, Sons & Co., Ltd.	639	Marshall's Organisation	xvii	Thwaites Engineering Co., Ltd.	vi, vii
Construction Machinery, Ltd.	759	Mathew Brothers	xli'a, xva	Trianco, Ltd.	xviii
Contractors' Services, Ltd.	668	M.E. Engineering, Ltd.	670	Turner Manufacturing Co., Ltd.	756
Coseley Buildings, Ltd.	666	Mercantile Credit Co., Ltd.	670		
Cowley, Martin, Ltd.	635	Merton Engineering Co., Ltd.	xli'a		
Cox, H., & Sons (Plant Hire), Ltd.	758	Michigan (Great Britain), Ltd.	xxii, xxiii		
Cripps, R., & Co., Ltd.	752	Moore's Plant, Ltd.	xv	U	
				Under Water Welders & Repairers, Ltd.	658
D				Universal Divers, Ltd.	760
Davies, O. L., Ltd.	742			V	
Dawson, W. A., Ltd.	654			Va's Plant Register, Ltd.	629, 640
Derbyshire Tractor Service, Ltd.	658			Val de Travers Asphalt Paving Co., Ltd.	723
Dickerson, M., Ltd.	636				
Diving Specialists, Ltd.	740			W	
Doe, Ernest, & Sons, Ltd.	Cover ii, 633			Ward, Thos. W., Ltd.	liib, liib, 667
Dorman, Long & Co., Ltd.	736			Whitlock Bros., Ltd.	vib, 636
				Wilmslow Plant Hire Co., Ltd.	x, xi
E				Winget, Ltd.	x, xi
Edbro, B. & E., Tipplers, Ltd.	731			Wood, Pritchett & Partners, Ltd.	v, 741
Eddison Plant, Ltd.	ii, iii				
Elmco (Great Britain), Ltd.	737				

Advertisements received too late for Classification

NOTTINGHAMSHIRE COUNTY COUNCIL. HIGHWAYS COMMITTEE.

GREAT NORTH ROAD, A.1—HAWK'S NEST TO COUNTY BOUNDARY—STREET LIGHTING.

TENDERS are invited for SUPPLYING and ERECTING 10 STEEL LAMP COLUMNS, including Lanterns and Switchgear, at Hawk's Nest, Bawtry. Specification, Bill of Quantities and Form of Tender are obtainable from the County Surveyor, Shire Hall, Nottingham, and the Plan can be inspected during ordinary office hours at the above address.

Completed Tenders must be returned to the undersigned not later than First Post on 3rd JUNE, 1960.

A. R. DAVIS,
County Hall,
West Bridgford,
Nottingham.

BOROUGH OF MAIDSTONE.

CONSTRUCTION OF FOOTPATH AND SURFACING OF CARRIAGEWAY, MOTE AVENUE.

TENDERS are invited for the KERBING and CONSTRUCTION of a FOOTPATH (length 360 lin. yd.) and the SHAPING and SURFACING of the EXISTING CARRIAGEWAY—A.1—HAWK'S NEST TO COUNTY BOUNDARY—STREET LIGHTING.

Specification and Bills of Quantities may be obtained from the Office of the Borough Engineer, Palace Avenue, Maidstone.

Tenders, in plain sealed envelopes endorsed "Mote Avenue Footpath," must reach the undersigned not later than 10 a.m. on MONDAY, 6th JUNE, 1960.

The Corporation does not bind itself to accept the lowest or any Tender.

T. SCHOLES,
Town Clerk.

13 Tonnbridge Road,
Maidstone,
11th May, 1960.

CITY OF BIRMINGHAM.

TO BUILDING CONTRACTORS.

CONTRACT 703—4 SHOPS AND DWELLINGS OVER WINDSOR STREET, NECHELS GREEN (UNIT 11).
CONTRACT 730 (A.C.)—20 DWELLINGS—HANDSWORTH AND KINGSTANDING.
CONTRACT 736—DWELLINGS—HARBORNE AND NORTHFIELD.

The HOUSEBUILDING COMMITTEE invite FIRM-PRICE TENDERS for the ERECTION of the ABOVE. Bills of Quantities and Forms of Tender will be forwarded on payment of £2.25 for each Contract at the Office of A. G. SHEPPARD FIDLER, City Architect, Civic Centre, Birmingham, 1, to whom all cheques should be made payable. Applications should be made by 17th MAY, 1960. Conditions of Contract (which include the usual Fair Wages and Conditions of Labour Clause) may be seen at the City Architect's Office during normal working hours.

The deposits will be returned on receipt of bona-fide Tenders or notification of inability to tender, together with the return of the documents not later than three days before the date for receipt of Tenders.

Tenders, enclosed in the envelopes provided for the purpose, must be sealed and delivered to the Town Clerk's Office (Room No. B.31), Council House, Birmingham, 1, not later than 12 Noon on THURSDAY, the 16th JUNE, 1960. Tenders received after that time will be rejected.

The Committee do not bind themselves to accept the lowest or any Tender.

Council House,
Birmingham, 1,
5th May, 1960.

PLANNING ASSISTANT. Manchester.—Vacancy for a WORK PLANNING ASSISTANT. Candidates, 30-35 years of age, should have H.N.C. in Building and have sound knowledge of quantities and costing. Training and experience in work study and planning techniques desirable.—Apply in writing to G. E. PROCTER, Senior Resident Engineer, 20 Mount Street, Manchester, 2.

SENIOR AND JUNIOR SITE ENGINEERS AND QUANTITY SURVEYORS are required for civil engineering and building contracts in England and Wales. These are permanent appointments with good prospects. Bonus and superannuation schemes in operation.—Applications, which must be dealt with in strict confidence, must give details of age, experience, qualifications, and salary required, and should be addressed to Personnel Officer, TARMAC CIVIL ENGINEERING, LTD., Ettinghall, Wolverhampton.

PUBLIC RELATIONS OFFICER REQUIRED. with knowledge of constructional and agricultural equipment.—WHITLOCKS, Great Yeldham, Essex.

PUBLIC RELATIONS OFFICER REQUIRED by a national company of civil engineering and building contractors with several subsidiary companies and whose headquarters are located in the Midlands. This is a post for a man with previous experience in public relations. Knowledge of advertising techniques and promotion of external relations is essential. Pension and life assurance scheme. Applications will be treated in confidence.—Write Box V.1868, "The Contract Journal."

WANTED, REPRESENTATIVE for South Wales, to handle sale, hire and purchase of contractors' plant and equipment. Must have first-class experience and sales record.—Write details, with salary expected, to Box V.1869, "The Contract Journal."

J. DOUGLAS MATHEWS AND PARTNERS. J. chartered architects. REQUIRE experienced RESIDENT SITE SUPERVISORS on a permanent staff basis. Applicants must be prepared to go anywhere in the United Kingdom for resident appointments of one, two or three years. Salary £1,250-£1,750, according to job, experience and qualifications. Applicants to state names of at least three architect or engineer references.—Reply to 3 Ebury Street, London, S.W.1.

CIVIL ENGINEERS (JUNIORS) REQUIRED for civil engineering contracts throughout Scotland. Some contract experience an asset.—Please reply, stating details, to: R. J. McLEOD (CONTRACTORS), LTD., 22 Lynedoch Street, Glasgow, C.3.

CLERKS REQUIRED for civil engineering contracts throughout Scotland. Some contract experience an asset.—Please reply, stating details, to: R. J. McLEOD (CONTRACTORS), LTD., 22 Lynedoch Street, Glasgow, C.3.

CONTRACTORS' PLANT FITTERS REQUIRED. must be willing to travel.—Apply, giving all details of experience and rates, to Mr. E. R. Harvey, Plant Manager, PETER LIND AND CO., LTD., Romney House, Tufton Street, London, S.W.1.

WILLMOTT BROS., LTD. REQUIRE a SITE AGENT for new contract in Crawley area.—Please apply, in writing, to 462 London Road, Isleworth, Middlesex.

BOROUGH OF SWINDON.

BOROUGH ENGINEER'S DEPARTMENT.

TENDERS are invited for the FOLLOWING:—

- (1) (a) Hire of Contractors' Plant such as Excavators, Tractors, etc.
- (b) Hire of Lorries on a day-work basis.
- (2) Supply of or Supply and Delivery of:—
All-in Ballast.
All-in Aggregate.
Coarse Aggregate.
Sand.
Bricks.
Manhole Covers and Frames.
Gully Grates and Frames.
Precast Concrete Pipes.
Salt Glazed Ware Pipes.
Cement.
Concrete Gully Pots.
Concrete Manholes, Blocks, Channel Blocks, Kerbs.
Path Edging.
Concrete Paving Slabs.
Tarmacadam.
Bituminous Macadam, Cold Asphalt, Rolled Asphalt, Coated and Uncoated Chippings, Tar and Bitumen.

Specification, Conditions of Contract and Form of Tender can be obtained from the Borough Engineer, Civic Offices, Swindon, Wilts.

Completed Tenders, in a plain sealed envelope, marked "Tender for Materials" must be received by the TOWN CLERK not later than midday on WEDNESDAY, 25th May, 1960.

The Corporation does not bind itself to accept the lowest or any Tender.

Civic Offices,
Swindon,
6th May, 1960.

RUSHDEN URBAN DISTRICT COUNCIL.

SEWER IN ALPINE ROAD.

The Council are prepared to consider TENDERS for the CONSTRUCTION of approx. 223 lin. yd. of 6in. FOUL SEWER, together with all necessary ancillary works.

Forms of Tender, Specifications and Bills of Quantities may be obtained on application to the Engineer and Surveyor, Rushden, at whose Office the Drawings and Conditions of Contract may be inspected during normal office hours.

Tenders, in plain sealed envelopes endorsed "Tender—Alpine Road," should be delivered to the undersigned not later than Noon on FRIDAY, 10th JUNE, 1960.

A. G. CROWDY,
Clerk of the Council.

Council Buildings,
Rushden.

URBAN DISTRICT COUNCIL OF TYLDESLEY.

SURFACE DRESSING.

TENDERS are invited for SURFACE DRESSING of approx. 15,000 sq. yd. of DISTRICT ROADS. Specification and Form of Tender may be obtained from the Engineer and Surveyor, Town Hall, Tyldesley, and Tenders, in sealed envelopes endorsed "Surface Dressing," are to be delivered to the undersigned not later than First Post on 1st JUNE, 1960.

The lowest or any Tender will not necessarily be accepted.

RICHARD F. WILSON,
Clerk of the Council.
P.O. Box No. 7,
Town Hall,
Tyldesley.

CLERK OF WORKS REQUIRED to supervise power station; also INSPECTORS OF CIVIL ENGINEERING WORK, for hydro-electric and large industrial contracts in West of Scotland.—Written applications to Box V.1882, "The Contract Journal."

CONTRACTS MANAGER AND SALES CO-ORDINATOR REQUIRED by expanding company of gravel producers with active earthmoving division. Must be able to act on own initiative, lead existing sales force and negotiate work in all parts of the country. Should have existing contacts with national civil engineering contractors and practical earthmoving experience.—Write in confidence to the Secretary, WELFORD GRAVELS, LTD., Goldington Bury, Bedford.

CIVIL ENGINEERS REQUIRED for a number of contracts situated in the West Riding of Yorkshire. Experience in setting-out and general site work essential. Applicants will have the opportunity of a varied experience and rapid advancement to senior position with the company. Attractive salaries and allowances, together with annual bonus and pension scheme will be offered to suitable applicants.—Reply in confidence to the Managing Director, PAVIOR CONSTRUCTION CO., LTD., Salsaire Road, Shipley, Yorkshire.

STRUCTURAL ENGINEERS. Vacancies exist for STRUCTURAL DESIGNERS and DETAILERS. Positions are available which offer excellent prospects and opportunity for permanency. Pension scheme. Apply in confidence, giving age, details of education, training, qualifications and experience, with an indication of salary required, to Personnel Officer, ROBERT M. DOUGLAS (CONTRACTORS), LTD., 395 George Road, Erdington, Birmingham, 23.

CIVIL ENGINEERS. Vacancies exist on civil engineering and building works for planning and programming. Positions are available which offer excellent prospects and opportunity for permanency. Pension scheme.—Apply in confidence, giving age, details of education, training, qualifications and experience, with indication of salary required, to Personnel Officer, ROBERT M. DOUGLAS (CONTRACTORS), LTD., 395 George Road, Erdington, Birmingham, 23.

CONTRACTS MANAGER REQUIRED for large earthmoving contracts on road programme. Permanent position for capable man.—Write full particulars of age, experience, and salary required, to Box V.1881, "The Contract Journal."

ESTIMATORS REQUIRED for well established civil engineering and building firm at their head office in Birmingham. Good prospects, bonus and staff pension scheme.—Write, in confidence, stating age, experience and salary required, to Box V.1888, "The Contract Journal."

REPRESENTATIVE REQUIRED for S.E. England by well-known manufacturers of salt glazed ware. Applicants should preferably have an established connection in the area.—Write, stating age, experience and salary required, to Box V.1895, "The Contract Journal."

SERVICE MECHANICS REQUIRED for loading shovel engineers. Vacancies also for experienced DIESEL ENGINE FITTERS.—Apply UNION WORKS, White Hart Lane, London, N.17. Tel: Tottenham 4707.

CITY OF BRADFORD.

ERECTION OF 24 BUNGALOWS.

TENDERS are invited for the ERECTION of 24 BUNGALOWS, with necessary Site Works, at WESTFIELD LANE, WYKE, Bradford. Drawings and Conditions of Contract may be examined at the Offices of the City Engineer and Surveyor, Town Hall, Bradford.

Bills of Quantities and Form of Tender may be obtained from the above Office on payment of a deposit of Two Guineas, returnable on receipt of a bona-fide Tender.

Tenders, in plain sealed envelopes endorsed "Tender for 24 Bungalows at Wyke," together with Bills of Quantities priced in ink, in a separate envelope with tenderer's name thereon, are to be delivered to the undersigned not later than Noon on MONDAY, the 20th JUNE, 1960.

HENRY PATTEN,
Town Hall,
Bradford, 1.

URBAN DISTRICT COUNCIL OF CHESHUNT.

GRAVEL WORKINGS.

The Council invite TENDERS to TAKE A LEASE or APPROX. 14 ACRES OF LAND at TIDESTY MARSH and TURNERS HILL MARSH, Cheshunt, for the purpose of WINNING and WORKING of SAND, GRAVEL and BALLAST.

Particulars, including the Conditions of the Draft Lease, may be obtained from the undersigned on payment of a deposit of £1 1s., which will be returned to those persons who submit a bona-fide Tender.

G. S. NEWNHAM,
Clerk of the Council.

Manor House,
Waltham Cross,
Herts.

STOCKPORT CORPORATION.

HILLCREST ROAD HOUSING SITE AND BRINNINGTON NEIGHBOURHOOD UNIT FOOTPATH.

CONTRACT NO. 5.

TENDERS invited for CONSTRUCTION of FLAGGED FOOTPATHS (approx. 2,500 sq. yd.), COLD ASPHALT ON TARMACADAM FOOTPATHS (approx. 4,500 sq. yd.), LAND DRAINS, and a Short Length of DWARF WALL.

Particulars from Room 76, Town Hall, Stockport. Tenders to be returned to CHAIRMAN, Housing Committee, c/o Borough Surveyor, Town Hall, Stockport, by Noon, 31st MAY, 1960.

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PRINCIPAL CONTENTS

	PAGE
Serious Shortage of Work in the Civil Engineering Industry: F.C.E.C. Annual Report	692
Modern Design a Feature of Africa House: Main Block Stands on Concrete Cellular Raft	693
London-Birmingham Motorway Symposium	695
New Look for Village Schools: Remodelling Programme Going Ahead	699
A Lawyer Considers: Taxing Employees' "Perks"—Covenants in Restraint of Employees	700
Unusual Soil Conditions Involved in Scottish Jetty Scheme	701
"Dive-Under" Line will Speed Eastern Trains	701
Late Construction News	702
The Problems of Redevelopment: "Incompatible Land Uses Must be Removed"	703
College Features Unusual Timber Roof Design	703
Men and Movements	704
In Parliament	705
Talking of Safety, by "Dragee"	706
International Construction	707
CURRENT CONSTRUCTIONAL ACTIVITIES:	
Projects	709
Contracts	710
Awards	716
Trade Section	726

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LONG-TERM ROAD PROGRAMME ESSENTIAL

IN their report for the year 1959-60, the Council of the Federation of Civil Engineering Contractors leave no doubt that they are far from satisfied with prevailing conditions in the industry. They point out that although new work became more plentiful last year as a result of the relaxation of restrictions on capital investment, the stimulus to construction activity was centred largely in housing, and civil engineering benefited only to a limited extent. In fact, they say there is a serious shortage of work especially of medium and small sized schemes for local authorities. Added to this is the greatly reduced opencast coal output.

The F.C.E.C. have lost no time in drawing the attention of the Government to the present unsatisfactory situation, and from their report it is apparent that many of their hopes for the future are pinned on the road programme. For instance, the chairman of the Council states: "It is quite clear that the Government will soon have to tackle realistically the road problem by making long-term plans which should lead to the doubling or even trebling of the present programme." Precisely how soon this will be, time alone will tell, but it is becoming increasingly obvious that the Government will have to intensify their efforts if the problem is to be solved.

No one can deny that the programme has been enlarged during recent years—compared with an expenditure of £8m. in 1955-56, something over £70m. annually is now scheduled for new construction and major improvements. However, this is still insufficient, especially when one recalls that three years ago Sir William Glanville, director of road research, estimated that avoidable delays on our road system were costing us £500m. per annum; that this figure was growing at 14 per cent. compound per annum, and that if we were to tackle the road programme adequately we needed to spend a total of £3,500m.

Is the civil engineering industry capable of undertaking a bigger road programme? The answer is yes, as the F.C.E.C. have proved conclusively after making a survey among 41 major road contractor members about their potential to carry out additional new and major roadwork and the amount of plant they have employed and idle. The firms concerned—while having 1,754 machines employed or committed to roadwork, and another 1,652 idle and uncommitted—agree that they could undertake and finance with their existing organisations and plant an additional £73m. worth of contracts per annum (over and above their present commitments for road and other works).

As usual, it now depends on the Government, and particularly the Chancellor of the Exchequer, whether or not this tremendous amount of spare capacity is used to full effect. But there can be no doubt whatsoever that if the road problem is to be tackled realistically, the country must have a definite long-term programme free from the whims and fancies of the politicians.

Another 300,000 Houses

THE rate of house building continues unabated. According to the latest figures issued by the Ministry of Housing and Local Government, at the end of March there were 31,000 more houses under construction in England and Wales than there were last year. Private enterprise dwellings under construction were up by 18,000, and houses being built by local authorities were up by 13,000. These were the highest March figures since 1956.

Barring anything completely unforeseen, as the Minister of Housing said in Parliament last week, over 300,000 houses should be completed this year. For this, much credit is due to the builders who, once again, are showing what they can do when they are given the opportunity.

SERIOUS SHORTAGE OF WORK IN THE CIVIL ENGINEERING INDUSTRY

WHILE the load of work on the constructional industries as a whole is at a very high level, there is overall a serious shortage of work in the civil engineering industry, particularly of medium and small sized schemes for local authorities, states Mr. J. Maurice Laing, chairman of the Council of the Federation of Civil Engineering Contractors, in the Federation's annual report for the year 1959-60.

"When this is coupled with the quick run-down of the opencast coal programme it will be understood why there is a great surplus of managerial and plant capacity in our industry," he says. "This is constantly being drawn to the attention of the Government. We are satisfied that there are no artificial barriers to the letting of contracts other than the present high rate of interest on local authority borrowing, but this rate of interest is, in our opinion, unlikely to be reduced in the near future."

"It is therefore in the interests of the industry to see that until such time as more work becomes available, individual companies remain as strong as possible, and this will not be achieved if we continue to take on unremunerative work. It is surely better for each of us to do less work and avoid losses than to weaken ourselves by accepting contracts at a loss."

"Although the present loading on the constructional industries may be as heavy as our country can afford financially, the time must come when the emphasis will change and our industry, which is so concerned with heavy capital projects, must become more fully occupied. In particular, it is quite clear that the Government will soon have to tackle realistically the road problem by making long-term plans which should lead to the doubling or even trebling of the present programme."

Following are further extracts from the Federation's annual report:

During the latter part of 1959 it became evident that the opencast coal programme was to be cut back further in view of the changing pattern of demand for coal and the increasing stocks.

The Federation kept in constant touch with the Opencast Executive in the matter and towards the end of the year meetings of members interested in opencast coal were held to review the situation. The meetings decided that contractors should continue to negotiate individually with the Opencast Executive in relation to their individual contracts.

Materials

Delivery periods for reinforcing rods lengthened in the second half of 1959 and discussions were held between the Steel Supplies Committee of the Reinforced Concrete Association and the Light Rolled Steel Products Conference of the British Iron and Steel Federation. Deliveries were increased greatly in the second half of the year but the supply position remained difficult. The position is being kept under review.

Difficulties were also experienced during the year over the supply of bricks but this mainly affected the building industry.

As stated in the last annual report, the Ministry of Works wound up the Advisory Council on Building Research and Development in April, 1959. The Department of Scientific and Industrial Research became responsible for the encouragement of all kinds of construction research, and has accordingly set up a Standing Consultative Conference on Building Research and Development, on which the Federation is represented.

Industrial Relations

The Council is again pleased to record that the work of the Conciliation Board has proceeded smoothly during the year and that cordial relations have continued between the Employers' and the Operatives' Panel of the Board.

Early in the year the Employers' Panel rejected the operatives' claim, referred to in the last annual report, for an *ad hoc* increase of 4d. per hour in the basic rates of labourers and craftsmen in addition to the 1d. per hour granted under the Sliding Scale Clause in February, 1959.

In January, 1960, the Board reviewed wage rates by reference to the Sliding Scale Clause. The index figures relating to the 12-month period December, 1958, to November, 1959, yielded an average of 109.5, a figure within the index range "108 and up to but not including 110" upon which existing rates were based. The Board accordingly agreed that no increase in wages was due under the Sliding Scale Clause in February, 1960.

The Board went on to consider claims by the Operatives' Panel for an *ad hoc* increase of 4d. per hour in the basic rates of craftsmen and labourers and a reduction in working hours from 44 to 40 without loss of earnings entailing a consequential increase in basic rates of the order of 5d. per hour.

In settlement of these claims the operatives accepted an offer in the following terms:

- (i) Working hours to be reduced from 44 to 40 during the four months of November—February inclusive while remaining at 44 for the other eight months of the year.
- (ii) This adjustment of working hours being equivalent to average "normal working hours" of 42½ throughout the year, the basic rates of labourers and craftsmen to be increased by 1½d. per hour with effect from Monday, February 29, 1960, on the understanding that if the craft rate in the Building Industry were to be increased by more than 1½d. per hour the Federation would honour that extra increase.
- (iii) Overtime rates to be amended with effect from Monday, February 29, 1960, to provide for the payment of overtime at the rate of time-and-a-half for the first four hours after the ordinary working day, from Monday to Friday inclusive (instead of time-and-a-quarter for the first two hours and time-and-a-half for the following two hours).
- (iv) A Joint Sub-Committee of the Board to carry out a comprehensive revision of certain aspects of the Working Rule Agreement to bring them into line with these new arrangements.

Conditions of Contract

In the last annual report it was stated that the Ministry of Transport had invited the Federation, together with the Institution of Civil Engineers, the Association of Consulting Engineers and the Local

Authorities' Associations, to nominate representatives to serve on a new committee to deal with matters of general contract policy arising out of highway and bridge works, and that the Federation had accepted the Ministry's invitation in principle.

Following upon further discussions, the committee has now been set up. A representative of the Ministry of Transport has been appointed as the committee's first chairman. The Federation's representatives are Mr. A. M. Holbein and Mr. Charles Brand, and the Federation's Secretary, Legal Affairs, together with an official of the Ministry, are Joint Secretaries of the Committee, whose terms of reference are: "To consider problems of mutual interest arising out of the form of road and bridge works contracts and to make recommendations to its constituent members."

In consequence of the setting up of the committee, the Minister has removed the requirement that local authorities undertaking grant aided road works must, as a condition of grant, use the Ministry's Standard Conditions based on the I.C.E. Conditions, but the Committee has recommended to its constituent members, including the Local Authorities' Associations, the use of these Conditions.

The Federation considers that the formation of the committee will probably be of positive benefit to the industry in securing wider acceptance of the I.C.E. Conditions among the local authorities on a voluntary basis.

During the past year the Federation continued to pursue its policy of endeavouring to secure the widest possible adoption of the I.C.E. Conditions of Contract.

The last annual inquiry on the adoption of the I.C.E. Conditions made in May, 1959, revealed that the number of local authorities in England, Scotland and Wales using the I.C.E. Conditions had continued to increase.

In addition, of course, such prominent employing authorities as the Ministry of Transport, the British Transport Commission, the London County Council and the Metropolitan Water Board, as well as most firms of consulting engineers and many private industrial concerns, also use the I.C.E. Conditions.

Safety

The Federation has continued collecting twice a year figures of the numbers of accidents and man hours worked on jobs carried out under the Civil Engineering Working Rule Agreement. Frequency rates have been calculated relating the number of accidents to 100,000 working hours, which is roughly a man's working life. Members replying to the Federation questionnaires have been advised in confidence of their own frequency rates so that they can compare them with the national average.

In 1959 the Safety Training Course for Supervisors was established at the Industrial Safety Training Centre, Acocks Green, Birmingham, in co-operation with the Birmingham and District Industrial Safety Group, and at the Enfield Safety Training Centre, Enfield, in co-operation with the London Building and Engineering Contractors Accident Prevention Group. The first course was held at Birmingham and two further courses were held at Birmingham and two at Enfield.

During 1960 courses will be held at the Merseyside Training Centre as well as at both Enfield and Birmingham. It is also hoped to establish centres in Scotland and South Wales.



J. M. LAING

MODERN DESIGN A FEATURE OF UNITED AFRICA HOUSE

Main Block Stands on Concrete Cellular Raft



Main block fronting Blackfriars Road

CONSISTING of a main building 11 storeys in height, with a central wing of 11 and seven storeys and other flanking wings, United Africa House, Southwark, has been erected for the Norwich Union Insurance Societies for occupation by the United Africa Company of Unilever, Ltd.

The site is bounded by Blackfriars Road, Stamford Street and Upper Ground, with a frontage of approx. 200ft. on Blackfriars Road, and a depth of about 120ft.

The main building facing Blackfriars Road is 182ft. long, 135ft. high to the main parapet, and 150ft. to the lift motor room. It consists of a basement, ground floor and 11 upper floors plus tank rooms, fan chambers and lift motor rooms.

This building is flanked at the north and south ends by ground and four-storey wings. The Upper Ground, or northern wing, forms a bridge at first-floor level to give entrance to a road level and basement car park.

A central wing of 11 and seven storeys

has been designed at right angles to the main building, and between the south and centre wings is a single-storey building, giving the whole project a gross floor area of 200,000 sq. ft.

The four-storey wing fronting to Stamford Street has been splayed back to allow for a future roundabout at the junction of Blackfriars Road with Stamford Street and Southwark Street.

In the basement at the rear of the main building is a car park, together with an open car park between the centre and



Front entrance with cantilevered reinforced concrete canopy



Rear elevation of upper ground wing

northern wings at road level, and these accommodate a total of 72 cars, each parking bay being 16ft. by 8ft. with a 20ft. wide central access. The basement garage is approached by a 10ft. wide ramped roadway controlled by automatically timed traffic signals.

Based upon a 6ft. longitudinal module with a 17ft. depth of office, the building has 6ft. wide central corridors and 9ft. wide internal toilet and service areas.

Floors in the main building span a distance of 17ft. each side of a 15ft. wide corridor and toilet area. Those in the wings, not having any central toilet area, span 17ft. and 23ft. respectively.

No Cross Beams

The main building has a reinforced concrete frame based on 13in. by 9in. external columns at 6ft. centres, having two central lines of 30in. by 15in. columns at 18ft. centres, and tied with longitudinal spine beams. The whole design is devoid of any cross beam construction.

Floors are generally of hollow tile construction 7½in. and 9in. thick, with the

mosaic panels below the windows to the upper part, and Vert Stella marble columns and plinths with Zola marble infill panels to the ground and first floors. The remainder of the street elevations to the wings are in Portland stone with marble plinths. Rear elevations are finished in horizontal bush hammered Granitex rendered panels between vertical lilac facing bricks or stone margins.

All roofs are screeded in Isocrete of a minimum thickness of 2½in. laid to falls with a mastic asphalt finish and rock asphalt skirtings. The asphalt generally on the roofs is protected with 12in. by 12in. by 1in. thick asbestos tiles with the remaining asphalt areas finished with spar chippings.

Panels below the upper windows on the front of the 11-storey building consist of 3in. dense concrete, ½in. Jablite insulation and 5in. lightweight concrete, forming a precast sandwich panel. On the rear elevations the panels consist of a 4in. concrete block outer skin, a 2in. wide cavity and a 4in. Thermalite inner skin.

Metal windows are provided with double

ings with terrazzo finished floors and skirtings and are panelled in African hardwood veneers for exhibition purposes. Other special areas where panelling was used include directors' dining rooms; reception office; private dining rooms; and the directors' offices, conference rooms and board room on the 9th floor. This floor only is finished with ½in. thick OMU wood block.

The main entrance hall walls are faced in Zola marble with the floors paved in Roman stone with Bianco del Mare marble patterned insets. The ceiling is formed of suspended precast ribbed plaster acoustic tiles.

At the main entrance, doors are constructed in armour plate glass with ½in. plate glass side screens, the whole being trimmed in stainless steel and having a surround of Vert Stella marble. A crash bar is formed across the glazed screens in black plastic trimmed in stainless steel with the house title engraved upon it.

Acoustic ceiling treatments were used throughout the directors' offices, board room, dining rooms and central typing areas in the form of mineral fibre and pulp-board tiles stuck direct to the plaster soffits.

All kitchen and servery areas are tiled full height with blue eggshell finish tiles and Ferrolite non-vitreous floor tiles and skirtings. The suspended false ceilings to these areas consist of 2ft. by 2ft. Asbestolux removable panels to facilitate access to services.

Heating and Ventilation

Heating is by three package type steam boilers, each having an output of 1,250,000 B.Th.U. for supplying space heat and domestic hot water to the whole of the building with the exception of those areas heated in conjunction with the plenum system.

The office heating is by a convector type of heating unit placed directly under the window sill and running continuously between the window columns. Convectors in the main corridors are generally of the free standing, wall fixing type and those on the staircases and lift halls are set flush in the walls. The main entrance hall is principally heated by forced flow convector units on either side of the hall to form a heat curtain across the external doors.

All toilet areas are mechanically ventilated by a plenum system giving six changes of air per hour, the fresh air intake being sited in each cloakroom and extracted in the main toilet through the entrance lobby.

The main kitchens, being a completely sealed area, are ventilated with filtered and heated air from ducting set above the false ceiling and designed to give 45 air changes per hour.

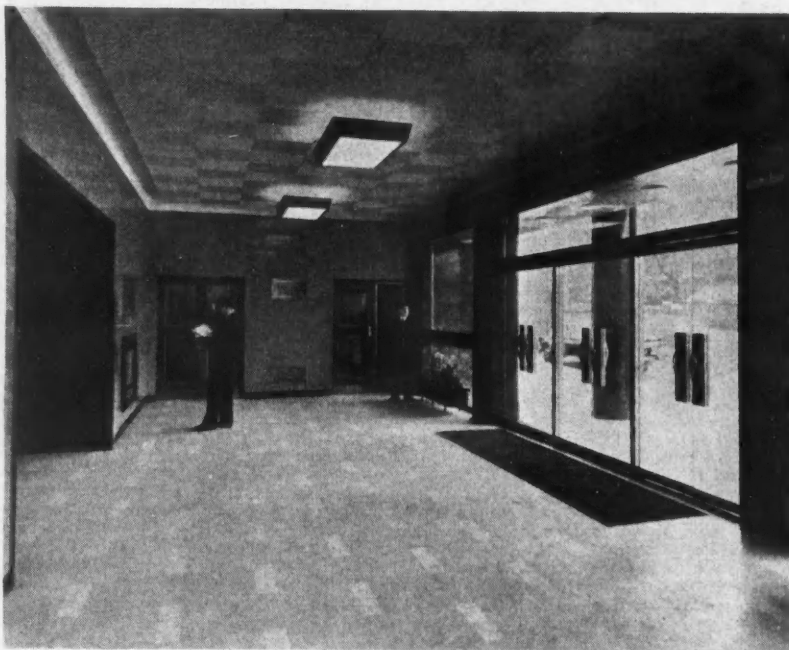
Other special areas such as all dining rooms and the medical centre are either fully or partially ventilated. The basement garage is ventilated to the requirements of the London County Council, the system being entirely separate from the other systems in the building, and designed to give mechanical extraction only at a rate of five air changes per hour with natural fresh air inlets.

Other Services

Two main vertical one pipe plumbing ducts are sited in the main building to serve all the toilets. These discharge into a cast-iron drainage system suspended within the cellular raft and into the sewer at each end of the main building. This combined drainage system is extended to receive floor gullies and two petrol interceptors serving the basement garage, together with the main kitchen plumbing. Smaller ducts are provided to accommodate rainwater pipes.

A three compartment floor duct is situated within the thickness of the floor screed and circumscribes the building at each level, and contains the wiring for the electrical outlet points, telephone services and remote dictation. It is fed from the relevant service riser duct.

(Concluded on page 698)



Main entrance hall

exception of the ground floor which is 12in. solid concrete designed on Home Office recommendations of a 5cwt. per sq. ft. debris load.

The 11-storey building is supported on a reinforced concrete cellular raft approx. 10ft. deep. The foundations of the remaining blocks and wings are either mass concrete pad or piled foundations, and the whole structure is tanked up to ground floor level with mastic asphalt.

Two ½in. wide vertical expansion joints have been provided in the 11-storey building between the ground floor and roof level.

The main entrance canopy is approx. 60ft. long and is cantilevered 10ft. in front of the building line, supported from two central columns 18ft. apart. It is constructed with reinforced concrete ribs with precast infill panels, the designed slope of the canopy allowing rainwater to be drained into a gully with outlets to pipes cast into the columns.

All solid partitions, except the 4½in. brick partitions in the kitchen areas, are of Thermalite blocks 3in. and 4in. thick. The remainder of the partitions are of a demountable timber construction to a special design.

External Finishes

The principal elevation to Blackfriars Road is faced with Portland stone, with

glazing consisting of two panes of 32oz. glass spaced ½in. apart. Windows generally have slate external sills.

Copings to the main building are of 2in. thick slate, the remaining copings being of 3in. stone.

The main entrance canopy is faced on the underside with hexagonal mosaic with a stainless steel fascia trim.

Internal Finishes

Offices and corridors are plastered throughout and decorated with emulsion paint. All office floors are finished with ½in. thick Guarea timber blocks laid on a 2½in. thick cement screed, and corridors are paved with 12in. by 12in. by ½in. heavy duty cork tiles.

Joinery generally is in Niangon hardwood timber with Sapele veneered flush doors, and finished with a clear lacquer, with the exception of the toilets, which are in painted softwood. The toilets have tiled walls with plastered false ceilings and terrazzo floors and skirtings.

Staircases in the main building are formed with precast terrazzo treads and risers with a painted metal balustrade capped with a hardwood lacquered handrail. Other subsidiary staircases are paved with granolithic and have a painted metal balustrade with a preformed plastic handrail.

The lift halls have plastered coved ceil-

LONDON-BIRMINGHAM MOTORWAY SYMPOSIUM

The widespread interest in motorway development was evident last week when, at the Institution of Civil Engineers, a large audience filled the Grand Hall for the Symposium on the London-Birmingham Motorway. Sir Herbert Manzoni presided, and the following Papers were presented and discussed: "The General Motorway Plan," by Mr. J. F. A. Baker, chief engineer, Ministry of Transport; "Economic and Traffic Studies," by Sir William Glanville, director of road research, D.S.I.R.; "Luton-Dunchurch: Design and Execution," by Sir Owen Williams and Mr. O. T. Williams, partners, Sir Owen Williams and Partners, consulting engineers; "Luton-Dunchurch: Construction," by Mr. W. K. Laing, chairman, Mr. J. M. Fisher, technical advisor, and Mr. B. H. Broadbent, chief civil engineer, John Laing and Son, Ltd.; "St. Albans By-pass," by Lt.-Col. C. H. Jolliffe, Hertfordshire county surveyor, and Mr. T. McMillan, managing director, Tarmac Civil Engineering, Ltd.

OPENING the symposium, SIR HERBERT MANZONI said the large numbers attending the meeting gave weight to the fact that the series of Papers to be presented comprised one of the most important series the Institution had had for some time.

There was a most distinguished list of authors, and it would be agreed that the Papers were in keeping with their distinction. They dealt with one of the most important civil engineering works carried out in this country since the war, remarkable not only for its size and quality, but also for the methods which had enabled it to be completed in such a very short time.

The results recorded were not attained easily; and the Papers, although giving a bare description of the general background of the works themselves and, indeed, of the research which had gone into this subject and was still continuing into the effects of the motorway, were all remarkable.

Teamwork

MR. J. F. A. BAKER, presenting his Paper, said the building of a road on the scale of the M.1 was a matter of teamwork, and he acknowledged how much the co-operation of the consulting engineer, the county engineer and the contractors, and the scientists under Sir William Glanville at the Road Research Laboratory, had been appreciated in his own Department.

His contribution was naturally one of somewhat general coverage. He had tried to trace the history and origin of the motorway proposals in this country; how those proposals fitted into the general pattern; a little more detailed description of the M.1 itself, the general standards of design and specification, the legal and administrative steps which had to be taken, the system of signposting, emergency telephones, etc., and general matters of operation and arrangements for future maintenance.

Also he had drawn attention to some of the lessons to be learned and some of the problems of design and construction which had to be solved before we could approach the ideal.

He then illustrated the Paper with a number of photographs. The first was a map of the country showing the motorway framework, pointing out that M.1 comprised a route from the outskirts of London to Yorkshire with direct access to Leeds and a connection to the Great North Road—which was itself being modernised—and how this motorway would serve important towns such as Northampton, Leicester, Nottingham and Sheffield en route.

It was the bottom portion of M.1 to a point north-west of Northampton and just south of Rugby which had been constructed, together with a spur, M.45, to Dunchurch, just east of Coventry. It was this part which had become popularly known as the London/Birmingham motorway.

He then drew attention to the proposals for other routes which would give London direct motorway communication with the north-east and north-west, the west, the north and the south-east. The motorways he mentioned would have an overall length of 780 miles.

At the moment 75 miles of M.1 and its spurs had been completed, also the 6½ miles of the Preston By-pass and the 11½ miles of the Lancaster By-pass. He also pointed out his map to the various works which were now under construction and those which were to start soon, as well as those for which contracts had been let and were to be let.

Future motorways not included in his survey were the development plan proposed for a motorway from south-west London to beyond Basingstoke for traffic to Southampton or to the west of England, also the Brighton Radial. Moreover, there was the possibility—and he would say only the possibility at this stage—of the proposals for improvements with large-scale by-passes on the A.38 from East Brent south of Bristol via Bridgwater and Taunton to Exeter, resulting in a continuous motorway conception.

Also he had omitted many by-passes which were links in the all-purpose road system, but which were being or would be built to motorway standards. On the Great North Road, for instance, there were the by-passes at Stevenage (full motorway powers), Stamford, Grantham, Newark, etc.

General Pattern

In taking a look at the general pattern it was rather necessary to get matters in a full perspective, he said. And when account was taken of the fact that a full-scale rural motorway could cost as much as £400,000 per mile, and that many large and important schemes other than motorways both in town and country were proceeding or were proposed some idea of the magnitude of the whole business could be gained. If account were also taken of the many other schemes for which the increase of traffic would create demand, not to mention the growing need for certain urban motorways, some idea of the cost, complexity and full scale of the whole road problem could be obtained.

A typical cross-section of the motorway showed the central reserve 13ft. wide, plus the two 1ft. flush kerbs, making 15ft. overall. The side verges are each 11ft. 6in., plus the 1ft. flush kerb. Thus behind the 8ft. wide hard shoulders there is a level space of only 3ft. 6in. With 24ft. where the dual carriageways have two lanes each the overall effective width is 88ft., and where there are dual 36ft. carriageways the overall effective width is 112ft.

There was no doubt, said Mr. Baker, that these were the minimum possible overall widths to which roads of this kind could be constructed, and there would be advantage in greater width on both the central strip—to minimise dazzle—and on the side verges.

One of his slides showed the old A.5 where it passed through Markyate, with its very narrow main street. Until a modest by-pass was built three years ago in advance of the motorway, this narrow village had to carry all the heavy industrial traffic on this important route.

Economic Benefits

SIR WILLIAM GLANVILLE, presenting his Paper on "Economic and Traffic Studies," said it was an exercise—largely a paper exercise—to predict what would happen if a London-Birmingham motorway were

built. There was then no decision to build it.

What the Road Research Laboratory wanted to know was the influence it would have on traffic and what the economic benefits, if any, would be.

The work developed into a considerable research, to which many had contributed besides the Road Research Laboratory—Birmingham, the Ministry of Transport, local highway authorities, the police and others. Money came at the beginning from American Conditional Aid funds, but this was a small proportion of the total cost, which amounted to perhaps 0.1 per cent. of the cost of the motorway, say £20,000.

The work had already been described in some detail in Papers by his colleagues Mr. D. J. Reynolds and Mr. T. M. Coburn, in collaboration with Mr. M. E. Beesley, of Birmingham University; and Sir William particularly acknowledged the work of Mr. Coburn, who had been responsible for the traffic investigations.

The account given in his own Paper was abridged, plus some figures obtained of the operation of the motorway. Since the Paper had been written, more information about the operation of the motorway had been collected. He therefore presented to the meeting some more up-to-date comparisons of what had happened with what was predicted. This he did with the aid of slides.

One showed the numbers of vehicles making different types of long-distance journeys which were intercepted in the O.D. survey and which were considered as potential motorway traffic. Most, but not all, of these journeys were assigned to the motorway. Despite the title "London-Birmingham Motorway," journeys from London to Birmingham (or vice-versa) constituted less than one quarter of the total traffic assigned to the motorway.

A table showed the predicted and observed traffic on the motorway at three points, in Herts., Bucks. and Northants., and the actual traffic as a percentage of the predicted at those points was between 90 and 95 per cent.

Another showed mean journey speeds on the motorway. The observed speeds in Nov., 1959, for cars, light goods, medium goods and heavy goods traffic were higher than those assumed for 1955 conditions.

Mean speeds for straight level sections of the motorway were shown in another table to be higher than in Belgium and France, the Netherlands and West Germany, and on the Preston By-pass.

The observed mean savings in time for journeys between London and Birmingham, transferring from A.5/A.45 to the motorway, were respectively 42, 31, 27 and 21 minutes for the four classes of traffic. The predicted were very close to the observed savings.

The time savings at 1955 traffic levels (in thousands of vehicle-hours per annum) were 1,560 for traffic transferring to the motorway and 380 for traffic remaining on the existing roads, a total of 1,940. (About two-thirds of the savings were attributable to goods vehicles and cars on business journeys.)

The predicted changes in fuel consumption for journeys transferring to motorway, based on 1955 conditions and at an

assumed motorway speed of 50 m.p.h., were an increase of 3 per cent. for the small car and a decrease of 16 per cent. for the large car; the observed results in 1959-60 at actual operating speeds were an increase of 17 per cent. for the small car and a decrease of 4 per cent. for the large car.

Safe Means of Travel

The casualty rates on the A.5 (1956) were 3.4 per million vehicle-miles; the observed casualties on the motorway (November, 1959—February, 1960) were 1.4 per million vehicle-miles (against the predicted 1.5). It was quite clear, said Sir William, that the motorway was a very safe means of travel.

Commenting on the savings in the annual costs of traffic at 1955 levels he said they referred only to benefits which were easily measured. Allowing for traffic growth between 1955 and 1960 (5 per cent. per annum compound), generated traffic (assumed to be 30 per cent. of diverted traffic), non-working time (at 5s. per man-hour) and the cost of maintaining the motorway (£200,000 per annum), the annual savings in 1960 were predicted at £2,400,000, which is 10.3 per cent. of the capital cost £23.3m.). So far as could be judged, the actual savings corresponded reasonably closely with the predictions.

SIR OWEN WILLIAMS, introducing the Paper on design and execution of the Luton-Dunchurch section of the motorway, said that in it the authors had gone as far as they could on technical matters relating to design and construction.

Commenting on the urgency of the 19-month contract, he said it would be better to refer to it as a two-summer contract, for any other 19 months would not be the same. They had started on the project in 1951, since when the total mechanised traffic in the country had doubled; the problem doubled in the time devoted to dealing with it.

During the period of the contract nearly 1,000,000 new licenses were issued, an additional number of new vehicles on the roads. The cost of those vehicles would be about £750m., and the purchase tax £250m. Therefore the purchase tax on new vehicles during the period of the contract was 10-12 times the cost of construction of the motorway.

If the new vehicles which came on to the roads during the period of the contract were just parked, they would occupy nearly 5,000 acres; and 50 miles of motorway was 500 acres of road surface. Therefore, we could park only one-tenth of the new cars. It was said that existing roads had not been relieved by the motorway. The intention of the motorway, however, was to take the overflow. We had not kept up with the new cars that were coming in. It was easy to appreciate the urgency.

Before embarking on the two-summer contract it was necessary to consider what was the justifiable limit to any extra cost. They had arrived at a figure of £2m. per mile as a financial return of the motorway in the first year and, indeed, on that they had fixed the penalty of £40,000 per week. Incidentally, the figure was in reasonable agreement with Sir William Glanville's estimate in his Paper.

As to the actuarial value of a year, the gain could be shown to be not the first nor the last year of the road, but its fifth year, on which its financial return could be estimated at £4m. per annum. That was 20 per cent. of the cost of the road; so that additional cost up to 20 per cent. would be justified to finish in two years rather than three.

Weather Conditions

They had not expected such really bad weather as had been experienced during part of the contract period. The contract consisted of 500 working days. That could be divided into 200 days in the first summer, 100 days in winter and 200 days in the second summer. In the first 200 days the rainfall was 50 per cent. above

normal and there were 50 days of the 200 days unworkable, which was four times the normal. In the second summer the rainfall was 50 per cent. below normal; three times as much rain fell in the first summer as in the second. In the second summer the unworkable days numbered only 6, about half the normal.

The effect of the first summer on excavation could be imagined by those who did not experience it. The dryness of the second summer was not entirely without its disadvantages, particularly as, immediately the motorway was opened, we had the wettest three months for half a century. There was no grass growing on the banks owing to the dry summer and the following wet months took their toll.

The necessary urgency affected design and it should have affected specifications in relation to earthworks, but this had to be adjusted during the progress of the work. Of the 500 days of the contract, no more than 300 could be allocated to bridges to leave sufficient time for following-on work. The 150 bridges they had designed had to be built in 300 days, i.e., one every two days, and they had been designed accordingly.

Nine years had elapsed since the task was started, seven in preparation and nearly two on construction. The early seven years were admittedly leisurely; very few had thought the motorway would ever be built, and there was no pressure. But, having regard to the magnitude of the works and their interference for so many miles with the life of the countryside, he thought that on the whole things went reasonably well.

Main Difficulty

MR. W. K. LAING and his two colleagues presented their Paper on the construction of the Luton-Dunchurch section.

Mr. Laing said the construction of this 55-mile section of the motorway did not in itself involve any particularly difficult engineering problems; the individual structures in themselves were not complicated. The main difficulty was that so much had to be done in such a short time. The exercise, therefore, was mainly one of planning. As a result, having appointed their project general manager to take overall responsibility for the contract, their second staff appointment was that of chief planning engineer. Their offices were immediately adjacent and they had worked in the closest collaboration from the time of acceptance of the tender to the completion of the contract.

Planning played a dominant role in the preparation of the tender because this had involved them in the submission of 32 separate prices.

The tender documents were prepared on the basis of four separate contracts, for which all the prices had to be prepared on the basis of several variations. In the first place the 19-month construction period had to be compared with 31 months. Each of these variations had then to be priced on the basis of a firm-price contract, compared with rise and fall in the case of materials and labour. The final comparison on all those variations was for black top against concrete wearing surfaces.

The preparation of a tender of this magnitude required the employment of nearly 30 highly skilled people for over two months. Approximately half that number were from the estimating department, and the remainder from different sections of the business—planning and progressing, plant, soil mechanics, personnel, catering and welfare, etc.

After the acceptance of the company's tender two months were allowed for the finalisation of their programme. During that period also very many people were involved in a great amount of detail work, e.g., a complete re-survey of the project was required, taking into consideration the land involved in cuttings and embankments. For this task alone nearly 100 men were employed.

The basic programme showed:

- (a) Earthworks, except for diversions and railway overbridges, to be completed by December 31, 1958.

- (b) All culverts and underbridges to be completed before the earthworks were commenced in the area.

- (c) All major road bridges over the motorway to be completed to allow diversion of traffic over them by December 31, 1958.

In the event, each of these targets was virtually achieved, in spite of the phenomenal weather.

Having prepared the programme, the next stage was that of planning; this covered basically three items: (1) machinery, (2) men, (3) materials.

Machinery

In regard to machinery, he said the contract was one of the most mechanised that had been undertaken in Great Britain. In the summer of 1958 the machinery employed developed 80,000-h.p., equivalent to 17-h.p. per man employed on the contract. Plant included 72 scrapers, hauled by either crawler or rubber-tyred tractors, and 150 excavators of various sizes up to 3 cu. yd. capacity.

Nearly 5,000 men had to be recruited. The company's personnel department worked in very close collaboration with the local trade union offices and those of the Ministry of Labour and National Service; and while many of the men could be recruited locally, naturally a large number had to be brought in from other areas.

Therefore it was necessary to arrange for hostels to be available for the duration of the contract. These were found in various towns adjacent to the line of the road, and in most cases the men had not to travel more than 30 miles each way to and from their work.

In addition, their own key men, amounting to about 25 per cent of the labour force, had to be transferred from their existing work, which entailed organisational changes throughout the company.

As to materials, he said that at the peak period of the two summers, material was arriving at the rate of 30,000 tons daily. A few typical items were: 3,000,000 cu. yd. of ballast and granular fill; 13,000 tons of reinforcing steel; 5,000,000 gallons of diesel oil for running the machinery; 400,000 tons of asphalt to provide the wearing surface; 130 miles of fencing; 25,000 Catseyes.

Orders had to be placed with the various suppliers, and the orders had to be phased so as to provide the material at the times it was required on the different parts of the job.

Organisation

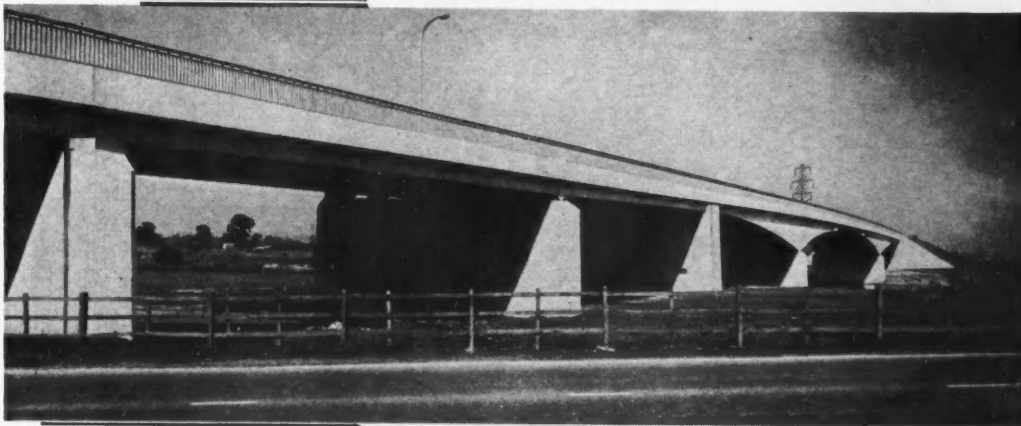
On organisation, as the documents were provided in the form of four separate contracts, and the consulting engineer had set up his own organisation to deal with the project on the basis of four contracts, the company divided their own management in the same way.

They arranged for a headquarters staff working under the project general manager in offices alongside those of the chief resident engineer at Newport Pagnell. Besides overall supervision, that staff was also responsible for the measuring of the work for interim payments, ordering of materials, accounts for materials received, payment of wages, etc.

Under the project general manager were four project managers, each responsible for one part of the main contract. They had their own staffs and their various projects were sub-divided under 14 section managers, each of whom was responsible for approximately four miles of road. Each section manager was dealing with a contract to the value of approximately £1m. These sections were further sub-divided, depending on the work to be undertaken in a particular area. Thus each bridge or culvert became a job on its own, supervised by a general foreman, and the intervening lengths of roadway were the responsibility of separate supervisory staff.

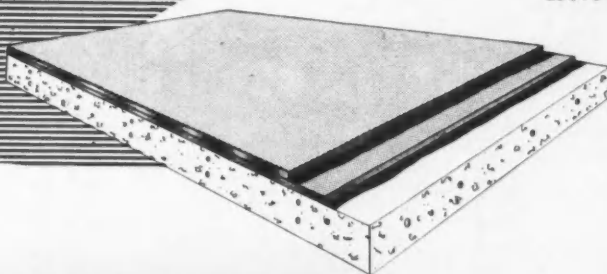
The main difficulty was that each of the 14 sections had to be started on one particular day, March 24, 1958. The company were accustomed to organising many

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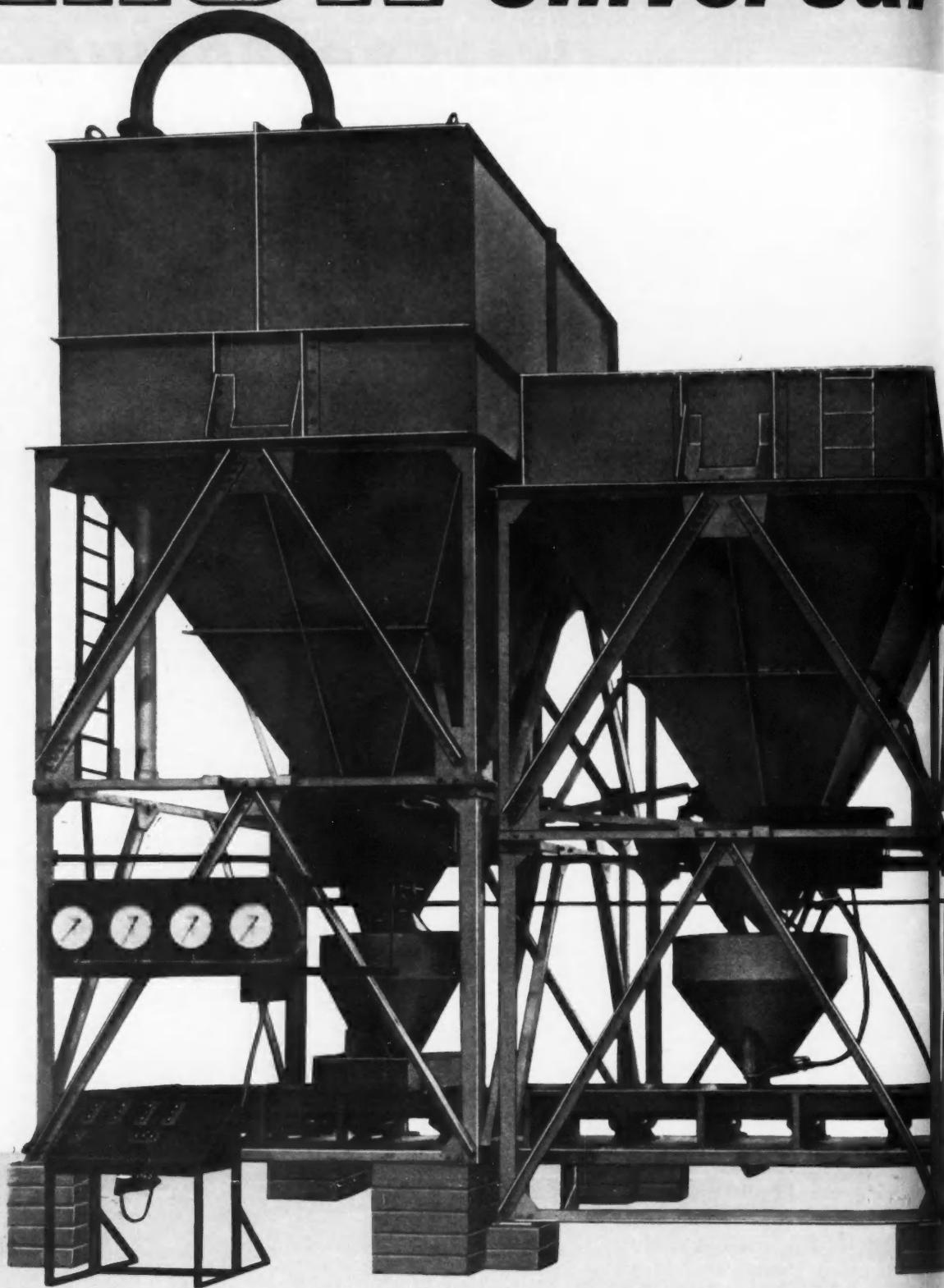
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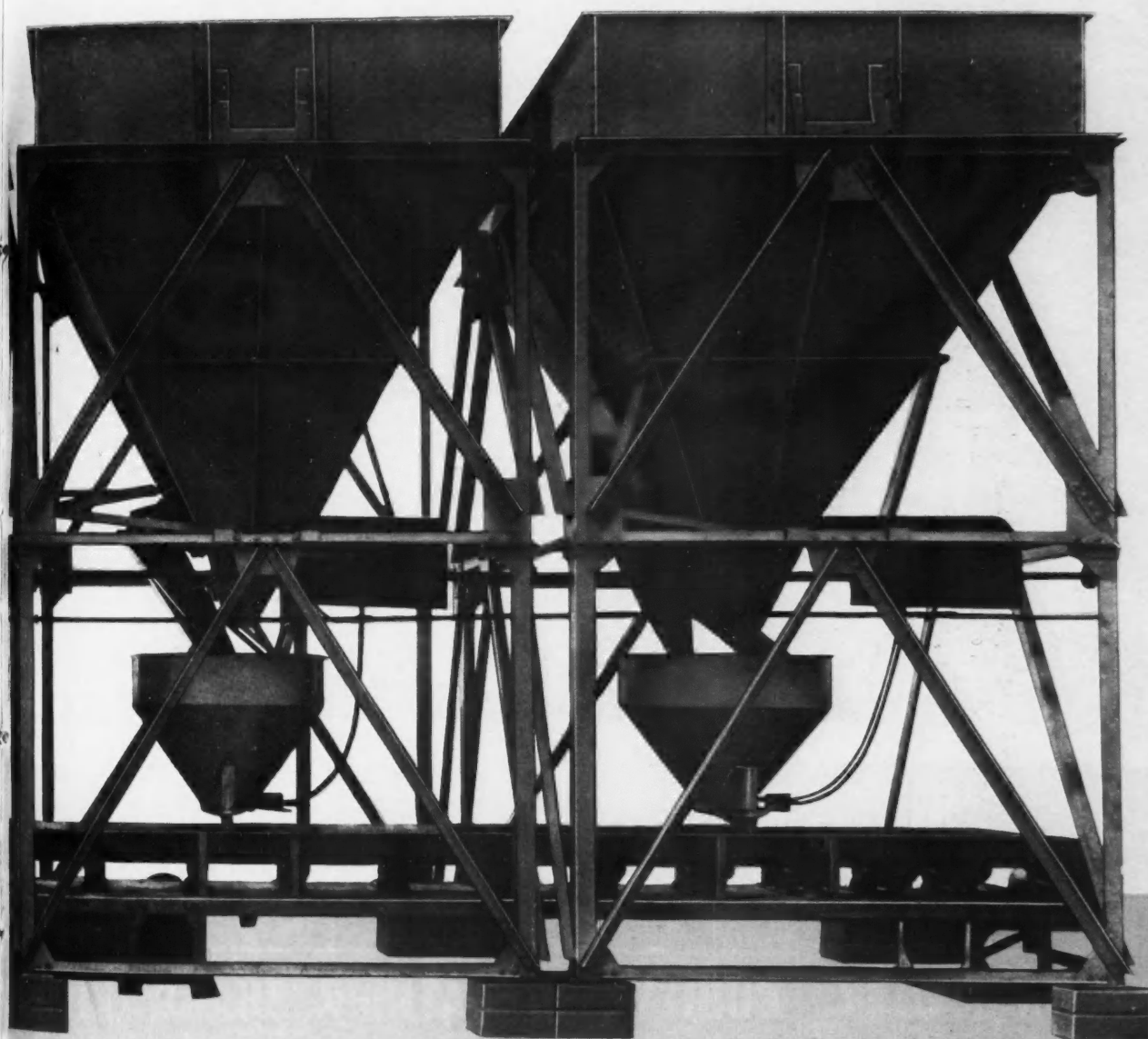
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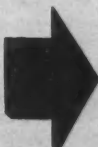
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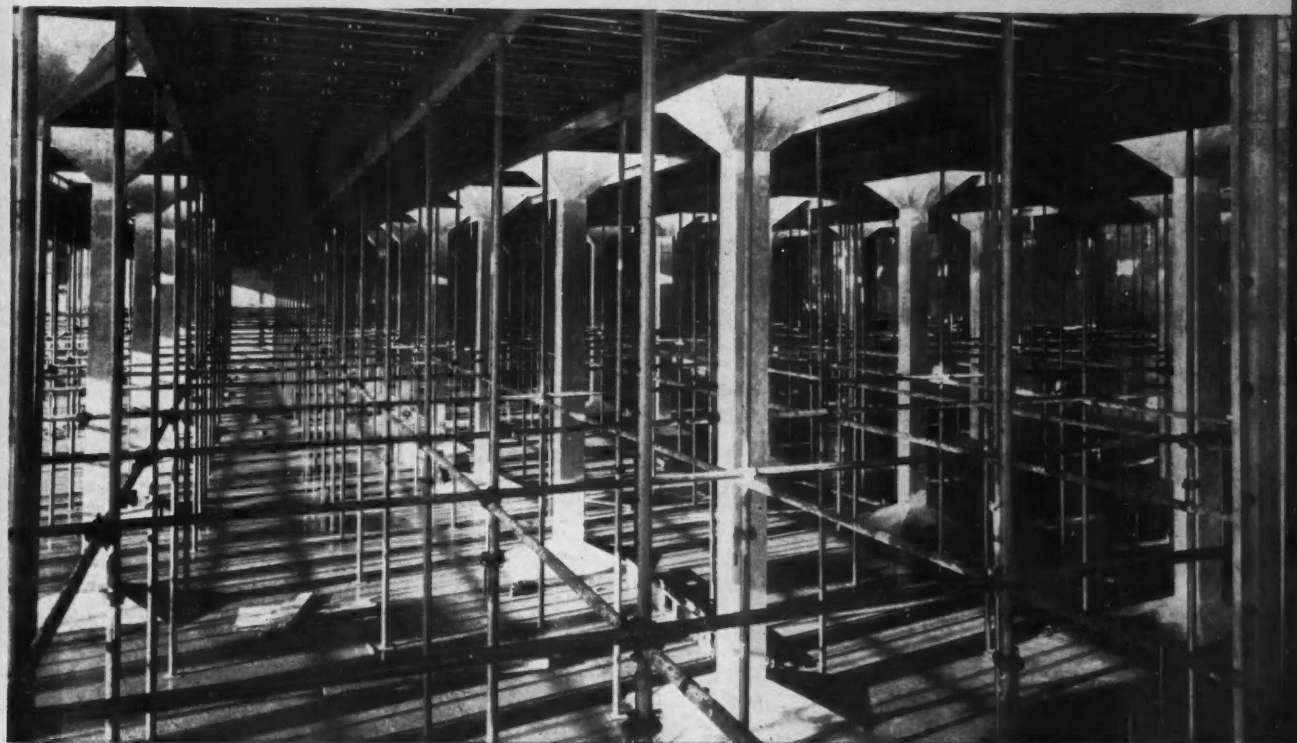
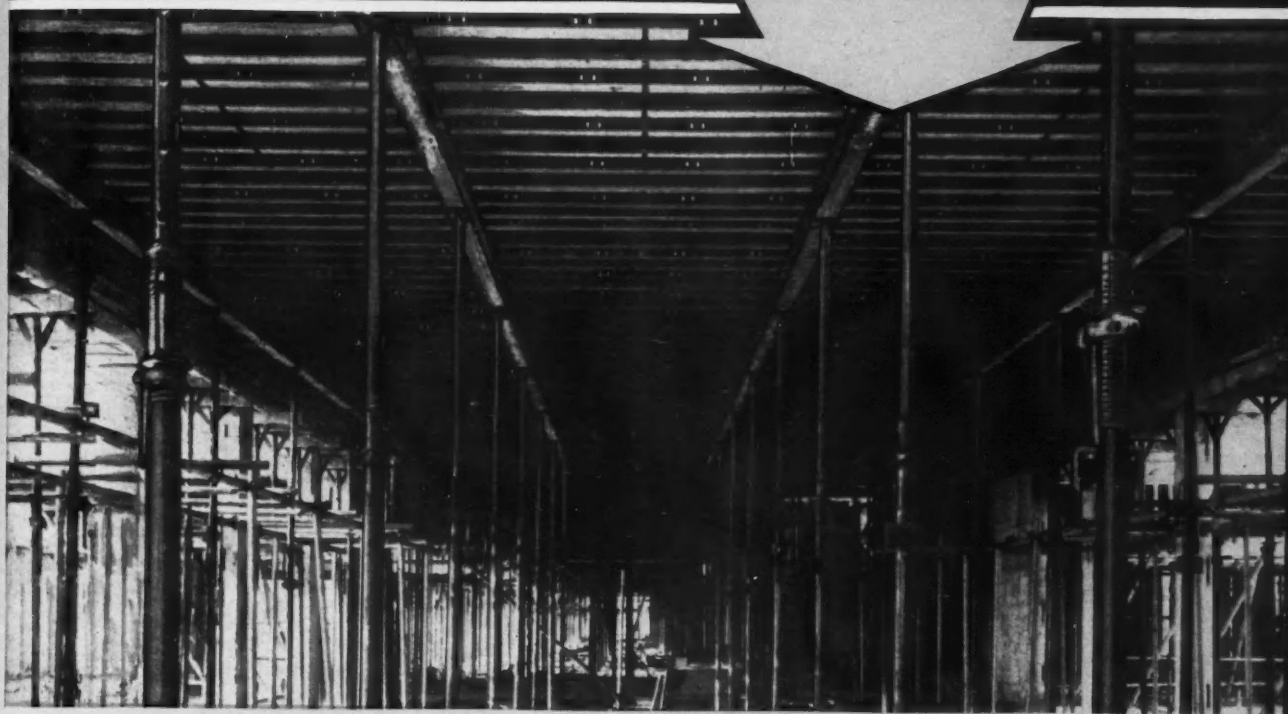
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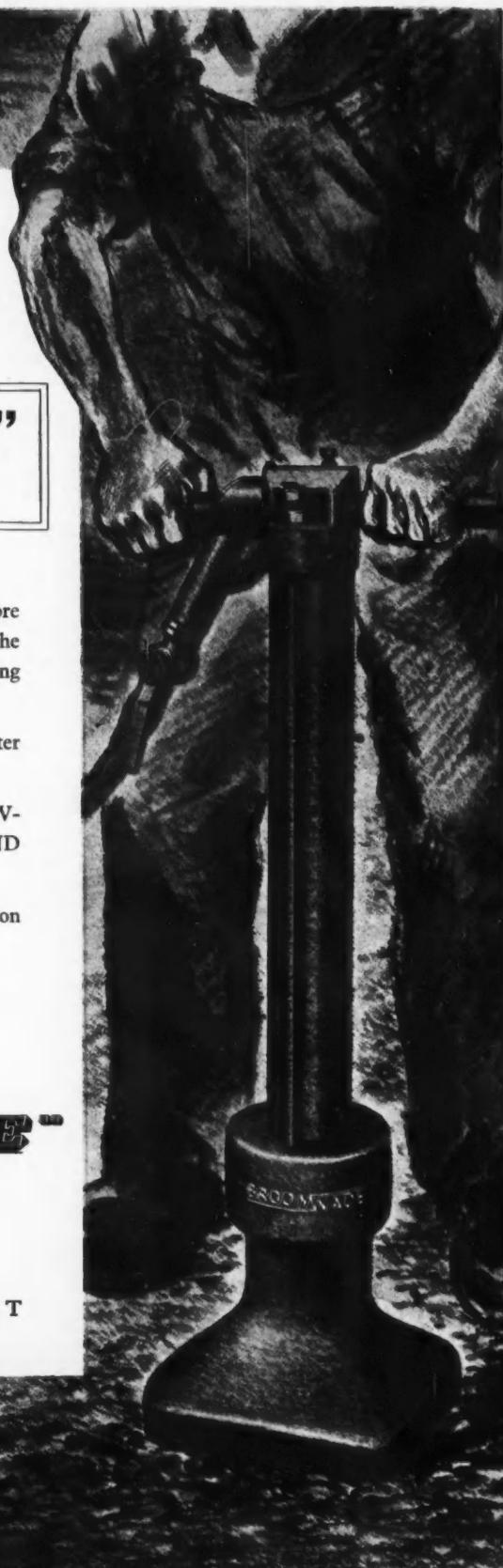
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contracts of that size or larger, yet to have to start 14 such very large jobs at one time had posed problems even for them.

Good Communications

Emphasising that good communications were vital on widespread projects of this sort, Mr. Laing said that in the first place project headquarters was provided with telephones, teleprinter and radio channels. The teleprinter gave access to head office and plant depot and also with many materials suppliers. Radio gave access to head office and, on separate channels, to each of the project managers. These in turn had their own radio channels, which allowed them to be in touch with their various foremen and even some of the larger machine gangs.

In addition, the project general manager was able to use the helicopter. The value of that machine, particularly during summer, was very great, for it enabled the whole job to be viewed in two hours, whereas by road it would have taken a week, and even then the job could not have been seen as an entity.

Construction Processes

MR. JOHN MCNEAL FISHER elaborated on a few of the construction processes in dealing with the carriageway.

First, on earthworks, he said that from the large-scale earthmoving operations carried out along the length of the motorway, one could have hoped that much information would have been forthcoming relating volumes of cut to volumes of fill in many different types of soil and with the different modes of compaction. Unfortunately, efforts to reach some general conclusions on this subject had been largely unfruitful, mainly because of the constant change in methods of earthmoving, which was necessary to counter the effects of abnormally bad weather during what should have been the peak period of earthmoving operations.

The arbitrary allowances for the settlement of embankments, however, had to date proved reasonably satisfactory. Since the opening of the motorway six months ago, evidence had accumulated showing that compaction of fill behind bridge abutments, where there was a sudden change from maximum fill depth to zero fill, still presented major problems, despite special efforts to overcome them. Time might show this to be the only major earthworks problem. It was interesting that the terms of reference of a special committee of the Road Research Board included this for urgent consideration.

In the Paper there was reference to the effect that the use of bulldozers had on improving the bond between main embankment filling and top soiling. Whilst the method had generally been almost completely successful, in one or two instances, presumably due to the very dry nature of both fill and top soil, bonding was not completely effective and there had been some parting, mainly on clay slopes. To facilitate dozer operation on slopes the authors would like to see them kept as flat as possible.

In the Paper they had commented on the urgent necessity for the development of alternative methods for measuring the compaction of soils to those currently used. New ideas on this subject were under development, but at the moment seemed to be either cumbersome or unreliable when dealing with a range of different materials. They felt that a mechanised and quantified version of the "clerk of works heel test" was needed—perhaps something in the form of a dynamically loaded plate bearing test to measure the strength of the fill. They would like a test more in keeping with high speed earthmoving operations than the sending out of engineers with teaspoons and cans of dry sand to determine what was after all only an indirect measurement of this.

The same comments on the use of hoggins as a sub-base as the authors had made in their Paper had appeared with perhaps greater emphasis in that prepared

by Lt.-Col. Ffolliott. It could be conceded that in conditions which applied during the summer of 1959, or even under more average weather conditions, hoggins could prove to be a first-class base, but, where it was used under difficult conditions, untold expense might be incurred in maintaining through ways for construction traffic, breakdowns of plant and wastage of imported material.

Ample Provision

He emphasised the necessity to be realistic about this and to make ample provision in the early stages of a job for using free-draining material of high mechanised stability with small fines and cohesive fractions whenever necessary.

The observed distribution of traffic using the motorway made it clear that to design the whole structure of a three-lane single direction carriageway to the same standard throughout its width could lead to either serious overstressing of the outer (heavy traffic) lanes or over-designing of the inner (light, fast) lanes. The use of increasing thicknesses of sub-base from the inner side to the outer edge of such carriageways would, in effect, be grading the transverse section according to traffic distribution in a way similar to that in which present designs varied the longitudinal section according to the bearing capacity of the sub-grade.

Varying transverse thicknesses from inside to outside would have for the contractor the added advantage that it would to some extent hasten the drainage of water from the formation and thus assist in maintaining the sub-grade in good condition and in speeding construction. This matter was under consideration by the Road Research Laboratory and variations in transverse thicknesses might become a feature of future motorway construction.

It was mentioned in the Paper that the construction of the marginal haunches did not lend itself to any appreciable element of mechanisation and, unfortunately the labour content of their construction was a good deal higher than that for any other process in the laying of the carriageways. Many efforts were made to devise a type of slip form and these had met with some success so far as the concreting operation was concerned; but they had foundered on the fact that the forms had to be moved along rails which had been accurately set for both line and level on both sides of the haunch. In the end it was decided to use specially shaped steel forms, which were man-handled and erected two or three times during the course of a day. Many hundreds of forms were in use along the length of the motorway.

Concreting Operations

Mobility of concreting operations was achieved in part by mounting bulk cement silos on skids, so that they could readily be drawn along the formation, and by using the most mobile type of concrete mixing equipment.

The thought about carrying the lean concrete road base beyond the carriageway to the outer edge of the hard shoulder and to define the carriageway by precast concrete kerbs flush with the finished surface had apparently occurred also to others. To the authors' knowledge, in one instance the lean concrete base and asphalt surfacing were carried to the edge of the hard shoulder and the carriageway was defined by applied white lines. In another it was proposed that the marginal haunches should be dispensed with and precast flush kerbs used to define the edge of the carriageway. As before, the lean concrete would be extended to cover the hard shoulder.

The production of the lean concrete for the road base called for greater concentration of plant than any other operation except earthmoving. The transporting of the large quantities of materials required had involved a vast fleet of lorries hauling from 18 gravel pits to 17 batching locations adjacent to the line of the road. In two cases, where gravel pits were favourably located, plants of the con-

tinuous mixer type were set up on spare ground within their boundaries and proved to be advantageous.

Based on the evidence of laboratory tests on the qualities of a number of granular materials from sources along the line of the road, the consultants took the bold step of allowing the use of materials which, though reasonably well graded—either "as dug" or as a result of processing—had higher silt-clay contents than had hitherto been used for this class of work. These laboratory tests showed that, where cement contents were of the order of 4.6 per cent. of the dry weight of the aggregates, the presence of substantial quantities of silt did not appear materially to alter the compressive strength of the concrete. Its effect on the transverse strength was not measured, but it might well be greater.

A term new to the road builders' vocabulary—cement bound granular material—was much less of a tongue-twister than the only one the authors could think of at the time of going to press!

Those materials, although they produced concrete of adequate strength, were initially a continual source of embarrassment at those mixing stations which used immobilised Koehring twin drum pavers. The most widely favoured method for maintaining the mixer drums in reasonably clean condition was the frequent passing through of batches of gravel rejects and water. These served to displace the silt-sand-cement mixture which had separated out from the mix and had deposited behind the mixer blades and on the surface of the drum.

When continuous plants incorporating vibrating weigh feeders for both cements and aggregates, belt conveyors and trough type mixers were introduced, these had proved themselves to be the equipment par excellence for producing a uniform quality of base concrete at a high rate of output from materials which were virtually "as dug" and, in two cases, potentially very difficult to handle. The uniformity of the concrete produced in these plants was such that the authors would claim without hesitation that any lean concrete road bases would be much more uniform in quality if the specification required that all mixing were done in plants of this type.

Base Concrete

The base concrete was laid by means of either Blaw Knox P.F.90 bituminous finishers or, occasionally, by bulldozers. Whilst the pavers were excellent machines for laying substantial thicknesses of lean concrete to uniform densities, they were to some extent hampered by the high ground pressures between tyres and the sub-base. This tended to limit their effectiveness when working on a sub-base which had become softened. Maintaining correct levels became a matter for constant adjustment, and steering by the two leading wheels often caused severe rutting. Tracked machines of the same type might have been of advantage there because of their lower ground pressure, but it was considered that one drawback to their use was their comparatively low speed in reverse gear—five reverse passes were needed for each length of full width base laid.

A disadvantage associated with laying base concrete with this class of machine was that, on the last pass of each layer, there was a hold-up of concreting operations—lorries awaiting discharge whilst the finisher reversed along the bay. The development of a simple spreading machine which would lay material over the whole width in one operation would be of advantage, the author felt, but it would preferably have to be capable of laying the whole thickness in one operation. Bulldozers were used either for laying the two layers of concrete or, where ground conditions proved difficult for finisher operation, for laying the lower layer, whilst a finisher placed the upper layer.

No Clear Cut Case

Whilst there did not appear to be a clear cut case favouring the use of either

finisher dozer or blade grader for laying base concrete, it might reasonably be conceded that, where conditions were favourable, the finisher would produce a more accurate surface profile. The accuracy of that surface, however, did not appear to have any significant bearing on the accuracy of the finished asphalt surface. To an experienced asphalt laying gang, the evenness of the surface on which it was laid did not appear to be so important as uniformity in the asphalt and sufficiently high temperatures at the time of laying.

Since the attainment of a high standard of accuracy on the surface of lean concrete bases, e.g., departures of less than $\frac{1}{16}$ in. from a 10ft. straight-edge, was likely to prove much more costly than when tolerances were greater, it would seem that some investigation might well be undertaken to see whether over a period of years the shape of the base had an effect on the profile of the surface. Although there were distinct differences in the "rideability" of the lean concrete from place to place, it would have been difficult to identify the nature of the surface of the base concrete from that of the finished asphalt.

It was mentioned in the Paper that there did not appear to be any evidence that the two 7in. layers of the base were ever likely to bond together to form one single 14in. layer. Whether this division of the base into two separate layers added to or detracted from its strength, said Mr. Fisher, was a matter for conjecture and perhaps trial. But the authors felt it would be a distinct advantage if the whole thickness could be laid and compacted as one. The use of heavy vibrating rollers for compacting the concrete seemed to offer a reasonable prospect that such a method would be practicable.

Mr. B. H. BROADBENT said there was not much in the Paper about methods of construction because, as Mr. Laing had indicated, the problems lay in the total volume of works to be carried out concurrently in very limited time, and their wide distribution, rather than in any great complexity in the individual parts. During the construction of the motorway a film had been made, and it was to be shown at the special film evening of the Institution on May 26.

Bridge Construction

He went on to show some slides relating especially to bridge construction. One illustrated the construction of twin bridges

for a roundabout over the motorway at an access point. The first operation was to excavate at the site for the Bailey bridge to carry a diversion of the original road; the Bailey bridge was then erected and the diversion completed. That made it possible to cut through the old road and provide continuous access along the line of the motorway. When erecting the two permanent bridges, one concrete batching and mixing plant served for the two.

Seventy-two of the bridges were of the portal type with curved haunches, but only 21 of them had their decks square to the abutments and it was practically true to say that the remainder, except for pairs at roundabouts, were all at different angle of skew. The profile of the abutment and curved haunch was standard, and formwork could be standardised accordingly.

Mr. Broadbent showed on a slide two arrangements of back shuttering and said it was found possible to omit the upper curved part, which made concrete placing easier. The skew raised a complication in reinforcing steel bending, for the curved bars were shaped to a different ellipse for each angle of skew. Deck shuttering was generally made of square panels stepped back at the edges. He exhibited a photograph of the shuttering in position.

The curved upper surfaces to the wing walls defied all efforts to standardise and, subject to certain basic dimensions, they were adjusted by eye.

Travelling formwork was used wherever practicable. Illustrating the Ouse viaduct, where the arches are of varying span, a series of travellers was used to concrete a strip 23ft. wide, giving seven uses each. He showed a detail of one of the travellers, and another bridge traveller over a heavily trafficked canal, using R.S.J.s.

The arch over the road at Newport Pagnell was built on a scaffolding traveller. It was not possible there to obtain land for a diversion and the traveller had to be designed to permit traffic to pass through it. Travelling shutters were used also for a number of culverts.

His last illustration was of the railway bridge near Luton, to show the trenches for abutments and centre pier giving also access along the motorway. A pylon was moved from one side of the road to the other.

The possibility of parts of the motorway having to be closed to deal with troubles which might develop after its opening was

a matter of considerable concern. To make reasonable sure, for instance, that there would be no slips or settlement of earthworks sufficient to require such closure would have involved greatly increased cost and a much longer construction time. In the six months during which the motorway had been open it had been necessary to close short sections of one or two lanes from time to time to deal with minor slips and settlement, but the whole width of a carriageway had never been closed for those purposes, so that traffic had been able to pass continuously (except for blockage on account of accidents to vehicles). The total of those closures had been variously calculated to be equivalent to closing the whole motorway for less than 10 minutes.

Whilst the authors, he said, had expressed some opinions and had tried to some extent to present the results of experience gained in building the motorway, they were more concerned to draw attention to matters which seemed to require further consideration than to provide all the answers.

It was a cause for considerable satisfaction that, in spite of the general alarming increase in road casualties, the total number on M.1. A.5 and A.45 since the opening had been very substantially less than had occurred on A.5 and A.45 in the corresponding period of the previous year.

St. Albans By-pass

The final Paper, dealing with the St. Albans By-pass, was not formally presented, but Mr. McMILLAN showed an interesting film made for Tarmac Civil Engineering, Ltd., showing the various aspects of the work on construction. It began by depicting a small group of people, head by Mr. Harold Watkinson (then Minister of Transport) and Sir Owen Williams, at the inauguration, on March 24, 1958, and then followed the work right through until the by-pass was opened by the Minister, who travelled along it in his car.

In addition to the details of construction, there were some graphic illustrations of the appalling conditions due to the unusually heavy rainfall in the early stages of the work, when there was much earth-moving and levelling to be done, and artificial lakes had to be created to drain off the ground water.

(To be concluded)

(Concluded from page 694)

A transformer station having two 750-kVA transformers and a high tension switchroom is sited in the basement of the main building together with the building's own low tension switchroom. From this room cables are run to serve three main electrical ducts rising to the full height of the building and interconnecting at each floor level with the underfloor ducting, giving electrical outlet points for desk lights and small power machines.

Lighting generally, other than in special areas, is by fluorescent fittings giving a standard of illumination of 20 foot-candles.

A document conveyor system is installed consisting of a 3in. diameter plastic tube, 2,400ft. long, running horizontally throughout the length of each floor and serving some 34 stations. Its function is to allow documents to be inserted into a carrier with a dialling device which, when played into the system is pneumatically conveyed to the designated station by operation of a drilling device.

Serving all floors, a vertical mechanical postal chute has been installed, with a continuous moving canvas belt discharging onto a horizontal conveyor at basement level in the Postal Department.

Another system installed through the floor ducting enables personnel to dictate letters by a telephone type of instrument directly to centralised recorders in the main typing pools situated in the central wing at the rear of the main building.

A P.A.B.X. telephone frame room is

located in the basement and, together with the manual switchboards on the ground floor, serves five separate telephone risers equally distributed throughout the building. These are connected at each floor level with the under-floor duct system, giving a telephone outlet point at 12ft. centres along the perimeter walls.

Consultants and Contractors

Kenneth Wakeford, Jerram and Harris, 7 Connaught Place, London, W.2, were the architects and W. G. Edwards and A. Avery Hall, 75-76 Blackfriars Road, London, S.E.1, the quantity surveyors. The general contractors were John Laing and Son, Ltd., London, N.W.7, whose Civil Engineering Department acted as the consulting engineers.

Among the principal sub-contractors and suppliers were the following:

Heating and ventilating installation—Young, Austen and Young, Ltd.; plumbing and drainage works—Newman and Watson, Ltd.; electrical installation—Troughton and Young, Ltd.; lift installation—Otis Elevator Co., Ltd.; metal windows—The Crittall Manufacturing Co., Ltd.; marble works—J. Whitehead and Sons, Ltd.; panelling—Parnall and Sons, Ltd.; stonework—Bath and Portland Stone Firms, Ltd.; wood block and cork flooring—Bennetts' Wood Flooring (Tungit) Co., Ltd.; sanitary fittings—John Bolding and Sons, Ltd.; external renderings—S. Towers and Son, Ltd.; insulating roof screeds—Isocrete Co., Ltd.; asphalt, tanking and roofing—The Lawford Asphalte Co., Ltd.; architectural metalwork—Culford Art Metal Co., Ltd.; fire doors and shutters—Haskins Roller Shutters; sprinkler, dry riser

and hose reel installation—Automatic Sprinkler Co., Ltd.; flush doors—Leaderflush Doors, Ltd.; ironmongery—Yannedis and Co., Ltd.; mosaic, terrazzo and wall tiling—The Camden Tile and Mosaic Co., Ltd.; double glazing—Multiglass, Ltd.; foundation piling—The Cementation Co., Ltd.; slate sills—W. Perrin; flag poles—Piggott Bros. and Co., Ltd.; suspended plaster acoustic tiling—Clark and Fenn, Ltd.; acoustic ceiling tiling and suspended ceilings—Sundeala Metal Fixings; bar fitting and panelling—Russell Bros., Ltd.; cat ladders and cloakroom fittings—Allen and Greaves, Ltd.; lightning conductors—R. C. Cutting and Co., Ltd.; kitchen equipment—Benham and Sons, Ltd.; suspended ceilings—The Universal Metal Furring and Lathing Co., Ltd.; electrical impulse clocks—Gent and Co.; linoleum—Catesby, Ltd.; external lettering—Pearce Signs, Ltd.; mail conveyor—Sovex, Ltd.; pneumatic message conveyor—Dialled Despatches, Ltd.; plastering—Pollock Bros.; painting materials—I.C.I. Paints; decorations—Gee Brown, Ltd.; P.A.B.X. telephone equipment and traffic equipment—Standard Telephones and Cables, Ltd.; floor and wall tiling to boiler house—Wilson and Wyle, Ltd.

PERMISSION TO BUILD OFFICE BLOCK REFUSED

The Minister of Housing and Local Government and the Minister of Transport have refused an application by the British Transport Commission to build an 11- and 12-storey shop and office block adjoining Waterloo Station, London, at a cost of £34m.. Refusal was on the grounds that the proposed building was too big.



Great Ponton School

NEW LOOK FOR VILLAGE SCHOOLS

Remodelling Programme Going Ahead

ALL over the country, particularly in rural areas, a large number of small schools are being either remodelled or replaced by new buildings.

To help in this process, the Development Group of the Ministry of Education's Architects and Buildings branch undertook an examination of the problems and requirements of the village school in this modern age, and have designed two typical schools, one in Oxfordshire and the other in Lincolnshire.

The Oxfordshire building, at Finmere, is a two-class school and the other, at Great Ponton, a two-class instalment of a three-class school. Both were designed to hold about 50 pupils each, and their costs were respectively about £11,000 and £12,000.

The Ministry of Education Building Bulletin 16 indicated the variety of activity which needs to be provided for in any school of junior pupils. At a village school the age-range is even wider, running from very young infants of barely five years old, to the child of over 11 who is preparing to go on to secondary education. And the variety of interest and ability of children has to be catered for in much less space than in the normal junior school and, in the case of these two schools, with only two teachers in mind.

Designed with regard to the village background, a domestic atmosphere has been aimed at in each case. The two class spaces in each school are arranged so that there is a central area, as much like a living room as a classroom in the usual

sense, with small bays and alcoves where various activities can be carried on by individuals or groups of children. For the more vigorous activities, or for school assembly, a third space is provided between the class spaces, and separated by folding doors.

The domestic theme is underlined by the finishes and furniture and by the design of the external areas, such as playgrounds, paths and planting trees, shrubs and flowers.

A Building Bulletin on the design of village schools generally and these two schools in particular is to be published.

BUILDING FIRMS' STAFF PENSIONS

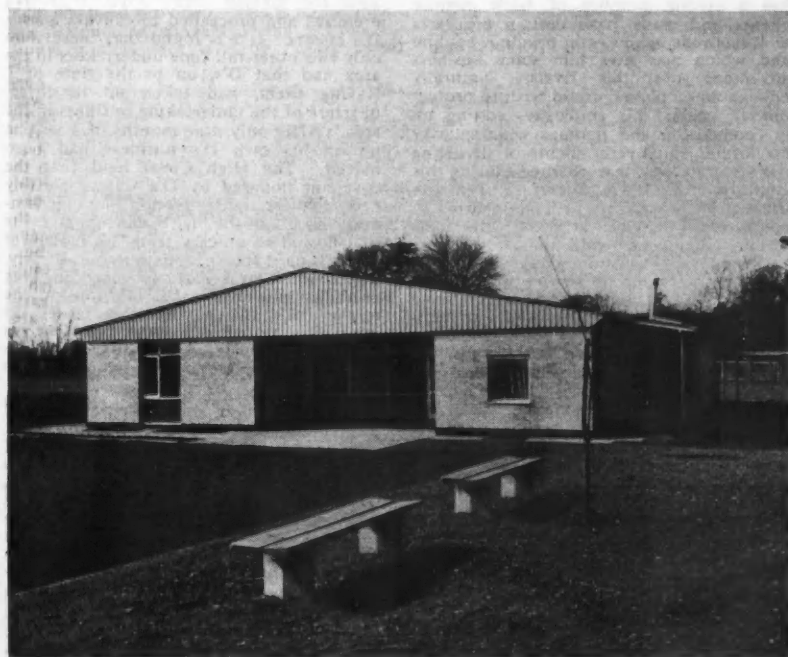
A conference, attended by representatives of firms who are contributing employers to the N.F.B.T.E. Staff Pension Fund, whose Trustees administer the pension scheme for the staffs of those firms, was held in London recently to discuss the procedure for "contracting out" of the new State Graduated Pension Scheme.

The chairman of the Trustees, Mr. T. H. Huxley Turner, C.B.E., presided, and the main speakers included Mr. G. W. Pingstone, F.I.A., A.S.A., group pension manager of the Legal and General Assurance Society, and Mr. E. W. Whittemore, of the Office of the Registrar of Non-Participating Employments.

Discussion was facilitated by a Guide to the Procedure for "Contracting Out" which has been prepared by the Trustees of the N.F.B.T.E. Staff Pension Fund. This document takes into account the special problems encountered by building firms owing to the nature of their general personnel structure.

"THE LAW AND THE GENERAL FOREMAN"

A well attended lecture on "The Law and the General Foreman" was given at the R.I.B.A. by P. J. Povey, Esq., M.A., of the National Federation of Building Trades Employers. The lecture was organised by the London Regional Council of Builders Foremen and Clerks of Works.



A general view of the school at Finmere

A LAWYER CONSIDERS . . .

Taxing Employees' "Perks" — Covenants in Restraint of Employees

IN an article in *The Contract Journal*, March 17, 1960, two cases were discussed in which the employers tried to give benefits to employees whom they wished to reward and encourage, benefits which were not a straight increase in salary or wages. A further case, which one might be pardoned for wondering whether it was worth the Revenue's while in chasing, has now been reported on this subject, *Wilkins (Inspector of Taxes) v Rogerson* [(1960) 1 All E.R. 650].

A company decided to make a present to 22 of its employees in 1955 of a suit of clothes, a raincoat or an overcoat which the employees were to obtain from a well-known multiple tailors. The company wrote to these tailors asking them to fit out the employees concerned and also issued authorisations to these employees to order the present of clothing they wished at their local branch of the tailors. No cash was issued to these employees and the tailors' bill was sent direct to the company and settled.

R was one of these lucky employees and in pursuance of this arrangement he went to the tailors for a suit priced at £14 15s. Of course he paid no money but was in due course sent the suit which he used. The Revenue then proceeded to tax R and his colleagues on this £14 15s. as an addition to their salary from the company. R's duties were secretarial and he was at the head office. R appealed against assessment on two grounds; firstly that this payment in respect of the suit was not part of his taxable salary at all; if that was not correct then, secondly, the amount on which he was taxable was not the amount paid by the company for his suit.

On the first point one has unfortunately only to read the relevant part of the Income Tax Act, 1952, to decide against the taxpayer. Employees like R pay tax in respect of all "salaries, fees, wages, perquisites or profits whatever" from their employment. Clearly this was a taxable perquisite. But the second question was—what was the value to R of this perquisite of his employment? The Special Commissioners decided that the value of this "perk" was its value in R's hands on the footing that he could sell it as a second-hand suit as soon as he got it; and this value was agreed by the Revenue as being £5 and the Commissioners therefore decided that R was to pay the appropriate tax on £5. The High Court has upheld this decision.

The Revenue seem to have relied for their case in attacking the Commissioners' decision on a previous case in the High Court where a company paid out £314 in respect of the expenses of a director in running a house (i.e., rates, light, heating, telephone and garden maintenance), in which he had to live as a condition of his employment with the company. It was held that the actual sum expended by the company was the perquisite to the director concerned and he was charged to tax on the £314, i.e., the actual amount expended by the company. But this case was not comparable to the present one. The payments to the director did not have a value in the hands of this director in the same way as this suit. The Commissioners relied for their decision on the well-known cases in which employees were allowed, as a perquisite of their employment, to purchase their employing company's shares at par when their real value was above par; in these cases there was no doubt that legally the employees had to pay tax on the benefit they had received, namely the difference between par value and market value. Simply because in this case the employee might seem to be getting an advantage by applying this rule of assessing the actual value of the perquisite was no reason for not applying it.

In other words the rule is that an employee is taxed on the value of what he receives. While, as in the case of the director above, it is true that the only way by which to measure the value of what the director had received was by reference to what his employers had paid out, that was only one way of finding out the value. As Lord MacNaghten said in one case, an employee is to be taxed "not on what he saves his pocket but on what goes into his pocket." Thus R may have been saved £14 15s. but what went into his pocket was surely only what the suit would fetch second-hand. Mr. Justice Danckwerts' final comments in his judgment are of interest: "It is perfectly true that, if the taxpayer in the present case had been told to go to the tailor and order the suit and pay for it, and had been promised that the company would then reimburse him the amount which he had paid, the benefit which he would have got would have been the amount paid by the company to him as reimbursement of his expenditure. It is true that that produces a different result according to the way the transaction is carried out, but according to experience in tax matters nothing is more common than to find such a situation."

Employers, therefore, wishing to give these minor, but no doubt very welcome types of extra reward to their employees should take care how they do it if they do not wish the good effect of the reward to be taken away by the employee receiving a heavy tax demand in respect of it. Assuming the company can charge such extra rewards against their profits there seems no reason why they should not adopt the method used in this case of themselves paying for the goods, etc., and the employee receiving the goods but no money. One only hopes that the practice will not become too widespread as the Revenue would no doubt see to it that the law was changed.

IN all employers' organisations there are bound to be some employees who will leave to improve their status or, particularly in the building industry, to try to start up on their own. Now each employer has a certain number of fairly regular clients and many have certain processes and methods which are peculiar to him and which may give him some business advantage over his rivals. Naturally enough an employer would wish to protect himself against his employees setting up in competition and perhaps winning over his former employer's clients or divulging the "secrets" he has learned during his employment. It is therefore common practice for employers to have inserted in contracts of service, at least with their senior employees, conditions restraining the employee from competing against his employer or taking up service with a rival employer. The common law courts have always disliked these conditions in contracts of employment and will not enforce them unless the employer seeking to implement such a condition can prove that the condition was reasonable not only in his own interest but also in the interest of the employee and of the public.

In deciding what is reasonable a mere general restraint on the employee competing with his employer would not, except in very limited circumstances, ever be enforceable. An employer cannot say "I will not have the skill and knowledge acquired by you in my employment imparted to my trade rivals after you leave my service." To stand any chance of being enforced by the courts the restraint has to be imposed in order to protect the employer's proprietary interests which are his trade secrets, if any, and his business connection; as Lord Parker has said:

"Wherever such covenants have been upheld it has been on the ground, not that the apprentice or servant would, by reason of his employment or training, obtain the skill and knowledge necessary to equip him as a possible competitor, in the trade, but that he might obtain such personal knowledge of and influence over the customers of his employer, or such an acquaintance with his employer's trade secrets as would enable him, if competition were allowed, to take advantage of his employer's trade connection or utilise information confidentially acquired."

Divulging trade secrets and soliciting a former employer's clients, these then are the only two matters on which an employee can be restrained. How great a restraint can the employer impose? The answer here is clear; the restraint must be reasonable both as to extent and duration. Thus if a builder and decorator in a small town imposed a restraint on his senior foreman that he would not set up in business as a builder and decorator within 50 miles of the town and for a period of 20 years such a restraint would not be reasonable. If it were for a radius of five miles and for a period of two years, then it would probably be enforceable by the courts.

A recent case, *H. J. Dawson, Ltd. v Taylor*, reported in the "Law Journal", February 19, 1960, rather neatly illustrates the law on this important matter. D's were a firm of undertakers in Leamington. T was appointed as their working manager with general control and management of the business. Apparently it worked out that only D's overall financial arrangements were left to the directors. Everything else to do with the business was done by T. Now T's agreement with D's contained a covenant that during the five years following the ending of his employment T would not carry on nor be employed or interested directly or indirectly in the business of an undertaker within the boroughs of Leamington and Warwick and that he would not within that area canvass or solicit orders from persons who had been customers of D's during T's employment with them. T gave in his notice and promptly opened up an undertaking business for himself some 75yd. from D's premises and proceeded to canvass among D's clients. It was found that there were only two other full-time undertakers in the area and that D's, up to the time of T leaving them, had taken up to three-quarters of the undertaking business in the area. After only nine months of T setting up on his own D's business had been halved. The High Court held that the covenant imposed by D's was reasonably necessary for the protection of their business—no doubt the highly damaging results that flowed so quickly from T's breach of the covenant showed this only too clearly. Moreover it was not excessive in area or duration and was not injurious to the public. The Court therefore issued an injunction stopping T from breaking his covenant and ordered an inquiry to ascertain the damages that had accrued to D's from the breach by T of his covenant.

A case such as this clearly shows the desirability of employers imposing some restraint on their senior employees. But in trying to impose such restraints it is merely foolish to try to be too stringent; the courts will not enforce it and are not inclined to try to sever the reasonable from the unreasonable restraints imposed; they are more inclined to condemn the whole agreement. The safest thing for employers to do is to insert in contracts of service reasonable restraints both as to area and duration; in that way they can rely on the courts to see to it that an employer's legitimate interests are protected from unscrupulous employees.

UNUSUAL SOIL CONDITIONS INVOLVED IN SCOTTISH JETTY SCHEME

Overall Saving of 10 Per Cent. on Concrete Work

IN Oban Bay, on the west coast of Scotland, a new reinforced concrete jetty has recently been completed. T-shaped with a berthing head measuring 160ft. by 30ft., it will be used by vessels of the Northern Lighthouse Board.

The soil conditions for the foundations were unusual; a layer of clay over sloping rock, the clay varying in depth from 2ft. at the west end to 30ft. at the east of the berthing head. The berthing head is therefore supported on the west end, where the clay is shallow, by a large reinforced concrete column 22ft. in diameter which rests directly on the rock. At the east end, the head is supported by a group of reinforced concrete raker piles driven into the deep bed of clay. Between these two points, the deck is supported by 17in. diameter unbraced vertical reinforced concrete piles only.

Prestress

To counteract normal impacts on the berthing head between these points, and to give the jetty extra resistance to severe impacts which might close the movement joint between the head and the approach, the concrete deck of the head is prestressed. This is done with 10 Macalloy high tensile steel bars, 1½in. in diameter, which induce a thrust of 400 tons into the deck.

The cost of prestressing was only 2.15 per cent. of the total cost (£53,700) and produced an overall saving of around 10 per cent. on the cost of the concrete work. The aim of the designer being maximum durability for minimum cost resulting in the use of in-situ flat slab and plate decks, prestressed to resist impacts.

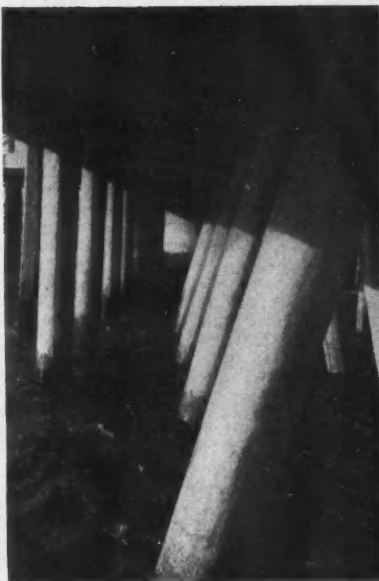
The concrete work generally is of very high quality and, apart from the edges of the deck, there are no arrises—all the piles being round. Special rock shoes prevent any of the piles from sliding on the sloping rock.

As the Board's vessels berth unaided night and day, special "greenheart" fendering has been provided. This is an independent structure, connected only to the concrete pier at deck level by rubber units.

The whole fendering can move in one piece 12in. in a fore and aft direction, and 6in. transversely at deck level and over twice these figures lower down.

Engineers and Contractors

Engineer to the Northern Lighthouse Board is Mr. P. H. Hyslop, D.S.C., B.Sc.,



An underside view

A.M.I.C.E., the consulting engineer was Mr. A. M. Robertson, M.I.C.E., and the contractors were William Tawse, Ltd., of Aberdeen, who completed the work in 12 months.

The two-month-old strike of 40 steel erectors on the new £3m. Runcorn-Widnes high level road bridge ended last week.

"DIVE-UNDER" LINE WILL SPEED EASTERN TRAINS

RAIL speed-up plans in the Eastern Region of British Railways took another step forward recently when work began on the construction of a 1,200yd.-long "Dive-under" line, at Colchester.

Costing nearly £150,000, it is one of the chief features in a programme of track work now being carried out in connection with the complete reconstruction of Colchester station.

More than 25,000 cu. yd. of filling material will be needed for the embankment carrying the dive-under track. The maximum gradient will be 1 in 66—in readiness for the proposed new link road (between Colchester and Yarmouth) which will eventually pass under the new line.

The main feature of the dive-under scheme will be the construction of a new bridge under the existing main lines. This will have two main girders—each 100ft. long—and will be of welded steel construction with cross girders encased in concrete. Construction of the bridge will hardly disturb the existing main lines, as the abutments will be built in a trench, with temporary girders supporting the track. The bridge superstructure will be built on trestles alongside its final position.

By agreement with the highway authorities, the abutments for the future link road bridge will be constructed at the same time as the new dive-under line is built—the earthwork between the abutments remaining until the new road is ready. Two more bridges will be required when the new highway is constructed: one under the existing Clacton branch lines, the other under the main lines.

The whole of the work will be carried out under the general direction of Mr. A. K. Terris, B.Sc., M.I.C.E., chief civil engineer, Eastern Region, British Railways. The contractors being employed in connection with the new dive-under line are The Cementation Co., Ltd.

£10M. ARMY DEVELOPMENT AT SALISBURY PLAIN

About £10m. is to be spent by the Army on rehousing in the Salisbury Plain district, where very little military development has taken place since 1910.

Included in the programme is the redevelopment of Larkhill, the home of the School of Artillery; provision of a district/divisional headquarters and three main barracks at Bulford; seven main barracks, a general hospital and a Command Ordnance depot at Tidworth; two main barracks at Perham Down; and a medical equipment depot and a central vehicle depot at Ludgershall.

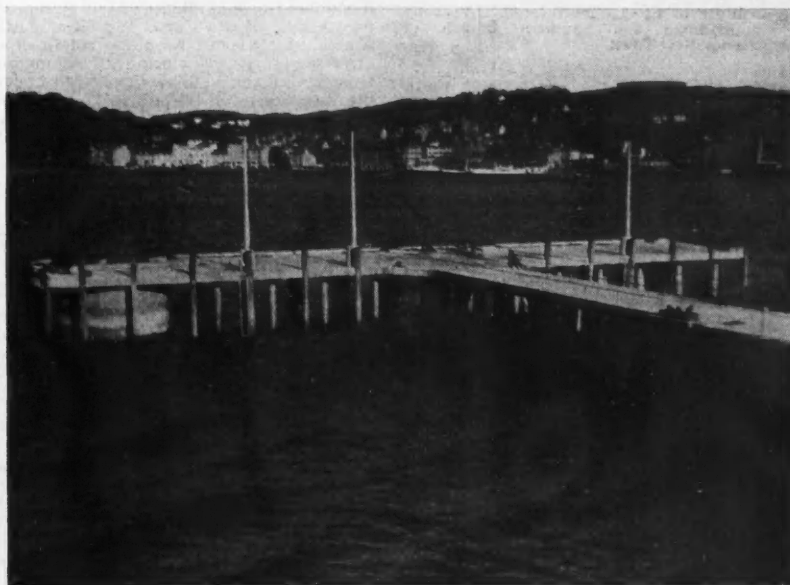
The question of provision of better facilities for shopping, swimming pools, clubs, cinemas and welfare centres is also being studied by a working party.

COST CONTROL CONFERENCE

The last of the series of conferences on methods of the control of building costs at the design stage is to be held at the University of St. Andrews from June 23-26, 1960.

The conference is sponsored by the Cost Research Liaison Committee of the R.I.B.A. and the Royal Institution of Chartered Surveyors, and conference arrangements are being made jointly by the R.I.B.A. and the Royal Incorporation of Architects in Scotland. It is primarily intended for the Scottish Region, but applications from those in other parts of the country who wish to avail themselves of this last opportunity to attend an R.I.B.A. conference on cost planning will be welcomed, it is stated.

Further details may be obtained from the Secretary to the Management Committee, R.I.B.A., 66 Portland Place, London, W.1.



The completed jetty

FIRST STAGE OF PROPOSED ROTHERHAM BY-PASS

THE Minister of Transport has made a grant of £163,500 to the Sheffield City Council towards the cost (£234,710) of constructing the first two miles of the Rotherham By-pass.

Designed to reduce traffic congestion in the centre of Sheffield, this first section will extend from Handsworth Road (A.57) westwards to a junction with Manor Lane. Only a single 24ft. carriageway will be built at this stage but the overall width (52ft.) allows for a second carriageway.

£1m. Second Stage

It is planned to extend the new road westwards for about a mile to Commercial Street (A.616) just north of Midland Station with roundabouts at Cricket Inn Road, Duke Street (A.616) and a fly-over at Sheaf Street (A.61). The existing roundabout at the Prince of Wales road junction will be replaced by a flyover and the whole length of the road will have dual 24ft. carriageways. It is expected that this second stage of the by-pass will cost over £1m.

Ultimately the road will be extended north-eastwards of A.57 into the West Riding County area to make a junction with A.631 near Whiston. This will form the whole of the Rotherham By-pass which is included in the Development Plans of Sheffield and the West Riding.

N.F.B.T.E. HALF-YEARLY MEETING

The National Federation of Building Trades Employers, under the presidency of Mr. D. E. Woodbine Parish, is holding its half-yearly general meeting in London from July 4-7.

Two separate business sessions have been planned. On the first day at the Royal Festival Hall, and on the second morning at the R.I.B.A. At this latter session a discussion will be opened by a Paper to be read by the national director, Mr. P. E. Trench.

In addition to the business sessions a varied programme has been arranged for members and their ladies. This includes a reception at Guildhall, visits to London theatres, and with a dinner and dance at the Grosvenor House Hotel.

CONCRETE BLOCKS: MINISTER ON FUTURE PROSPECTS

SPEAKING at the annual luncheon of the British Cast Concrete Association, the Minister of Works, Lord John Hope, said he felt quite confident that the demand for concrete blocks during the coming summer would be at a very high level, and that a good supply of them at the right prices would make a most valuable contribution to the achievement of our investment programme without bringing on inflation.

"I know that those who sell precast concrete building products have to overcome a certain amount of traditional sentiment," he continued. "Up to a point this is very natural—architects naturally wish to experiment and feel their way with a new material until they have had enough experience to know just what effects can be achieved with it, both structurally and aesthetically. New and exciting finishes are possible with precast concrete products and I am sure that they will make steady progress as their possibilities are increasingly appreciated."

"As the use of concrete products increases the search for new aggregates and new sources of aggregate is likely to become more urgent. The problems posed by gravel workings—how to find land for them and what to do with the pits afterwards—have been with us and worried my Department for many years. In some cases I believe fly ash from power stations is being pumped into old gravel pits so that they can be restored to agricultural use. This seems an excellent plan. In other cases the fly ash itself is used as an aggregate instead of the gravel and this seems better still from everybody's point of view."

"I hope that the attack on these problems will be pressed forward energetically. The solution of them is bound to take some time and in the face of rising demand, existing sources of supply seem dangerously ephemeral."

The number of permanent houses completed in Great Britain during March was 24,953 (compared with 23,627 in March, 1959), of which local authorities were responsible for 11,566 and private builders for 12,841.

Late Construction News

NUCLEAR RESEARCH CENTRE.—M. J. Gleeson (Contractors), Ltd., North Cheam, Surrey, have been awarded a contract by the Atomic Energy Authority for the erection of a new research establishment at Culham, Oxon. The site is to be developed as a laboratory for research into controlled thermonuclear reactions and plasma physics. Work is about to start and is expected to take two years to complete.

PIPES FOR SUEZ.—A contract for the supply of about 21,000 tons of steel pipes, worth about £1m., has been placed with the South Durham Steel and Iron Co., Ltd., Middlesbrough, by the Suez Canal Authority. Shipment is to be completed by October, 1961.

BANK ALTERATIONS.—Tenders are now being invited for carrying out extensions and alterations to Barclays Bank at 269 Broadway, Bexley Heath, Kent. Plans are by Ley Colbeck and Partners, Palmerston House, Bishopsgate, London, E.C.2, and quantities by Alfred E. Seaden, 51 Cannon Street, London, E.C.4.

£500,000 HOUSING CONTRACT.—Birmingham City Council have been recommended to accept the £500,000 tender of Morris and Jacobs, Ltd., 71 Hobmoor Road, Small Heath, Birmingham, for building 233 dwellings in flats, maisonnettes and houses, and 153 garages, at Kingshurst Hall estate, Castle Bromwich.

HARLESTON FACTORY OFFICES.—W. G. Youngs, Redenhall Road, Harleston, Norfolk, have been awarded the contract for the erection of main offices and other outbuildings at the new factory of Harleston Industries, Ltd. The firm are erecting their own steelwork for the factory, which will cost about £500,000.

SEWAGE WORKS FOR HARLOW.—Work is about to start on the construction of a £900,000 sewage disposal works for the Harlow Development Corporation at Hoddesdon, Herts. The contract has been placed with W. and C. French, Ltd., Buckhurst Hill, Essex. It covers the provision of reinforced concrete sedimentation tanks, aeration and other tank installations, and control houses.

EXETER NURSING HOME.—Application for planning approval has been made by Nuffield Nursing Homes Trust, Ltd., for the erection of a private nursing home at Lyndhurst Road, Exeter, at a cost of about £100,000. Contractors have not yet been appointed for the scheme, which has been designed by J. Stanley Beard, Bennett and Wilkins, 101 Baker Street, London, W.1.

£200,000 WARD BLOCK.—Newcastle Regional Hospital Board have accepted the tender of R. Carse and Son, Ltd., Amble, at £219,304, for the erection of a three-storey ward block at Ashington Hospital. Plans have been prepared under the direction of P. H. Knighton, regional architect, and the quantity surveyors are Thomas Barrett, Sons and Partners, 33 High Bridge, Newcastle upon Tyne, 1.

R.I.B.A. LONDON ARCHITECTURE BRONZE MEDAL

The Council of the Royal Institute of British Architects have made their award of the London Architecture Bronze Medal for the year ended December 31, 1959, in favour of the London County Council estate, Roehampton Lane (High Blocks) built to the design of the architects' department of the L.C.C. (architect to the Council, Hubert Bennett, F.R.I.B.A.).

The Award of the Bronze Medal is for a building of exceptional merit built during the three years ending December 31. The Medal will be presented to Mr. Hubert Bennett (representing the architects' department) on June 21, 1960, a replica being presented to the London County Council as the building owners and a certificate to the contractors, Wates, Ltd.

FOR THE DIARY

May 13

Institute of Builders. Meeting of the Liverpool Centre at the Exchange Hotel, at 7.30 p.m. "Building High Multi-Storey Housing in Liverpool," by Ronald Bradbury, Ph.D., F.R.I.B.A., A.M.T.P.I.

May 17

Institution of Civil Engineers. Meeting at Great George Street, London, S.W.1, at 5.30 p.m. "Port of London Authority—Development of two dock areas, 1959," by D. E. Glover, E. Newton, H. M. Dale and T. R. Brown.

May 18-19

Symposium on "Problems in the Design of High Buildings" at the R.I.B.A., 66 Portland Place, London, S.W.1.

May 20

Annual General Meeting of the Contractors Mechanical Plant Engineers (Midland Branch) at the Imperial Hotel, Temple Street, Birmingham, at 7.30 p.m.

May 24

Institute of Builders. Meeting of the Newcastle and District Centre at Royal Turks Head Hotel, Grey Street, Newcastle upon Tyne, 1, at 7.15 p.m. "A Visit to America," by H. Vincent, F.I.O.B.

Institution of Civil Engineers. Meeting at Great George Street, London, S.W.1, at 5.30 p.m. "The New Highway Bridges Across the River Tigris in Iraq at Amara and Kut," by W. E. Gelson and G. A. Plank; and "The Analysis of Steel Decks with Special Reference to the Highway Bridges at Amara and Kut, Iraq," by B. Farago and W. W. L. Chan.

May 26

Institute of Sewage Purification. Visit by Metropolitan and Southern Branch to Crawley New Town.

June 4

Annual General Meeting of the North Western Educational Association for the Building Industry at Peel Park Technical College, Salford, 5, at 11 a.m.

June 21

Royal Institute of British Architects. Meeting at 66 Portland Place, London, W.1, at 6 p.m. Council election results and presentation of 1959 London Architecture Bronze Medal.

June 21-24

Annual conference of the Institute of Sewage Purification, Scarborough.

June 30-July 3

Sand and Gravel Association of Great Britain. Short Course on "The Production and Technology of Sand and Gravel Aggregates," at the Imperial College of Science and Technology, South Kensington.

July 1

Institution of Highway Engineers. Visit to sites of works in Lancashire.

July 20-24

Institution of Municipal Engineers. Northern Districts Summer School at the University of Sheffield.

Aug. 30-Sept. 3

Royal Institution of Chartered Surveyors. Annual Conference at the University College of North Wales, Bangor.

THE PROBLEMS OF REDEVELOPMENT

"Incompatible Land Uses Must be Removed"

ACCORDING to Mr. H. F. Alston, town planning officer, Kingston-upon-Hull, land uses are becoming intermixed in an undesirable way and large areas are taking upon themselves an appearance of decay and decadence. Main roads no longer adequately fulfil their function, and something must be done to protect the public from the "law of the jungle" which exists on roads today.

Mr. Alston expressed these views in a Paper "Redevelopment of Decayed Areas," which was presented last week at the Royal Institution of Chartered Surveyors.

He said that incompatible land uses must be removed, street patterns altered to ensure road safety, and obsolete buildings renewed. The harmful effects of social upheaval caused by moving large numbers of people long distances to new homes, new places of work and new social surroundings must be avoided.

"All these problems have been experienced in redeveloping 150 acres in Kingston-upon-Hull," he continued. "These possess most of the vices which are to be expected in a decayed area: some of the property is war-damaged, of the remainder the great proportion is obsolete and that which is capable of improvement is either isolated or situated in small groups. The general layout is bad, the road framework unsatisfactory, there is a deficiency of open space, school sites do not conform with the Ministry of Education Regulations as to size, and unsuitable industries are intermixed with the properties."

"There was no doubt that the predominant use of this area should be residential. A layout was therefore pre-

pared to redevelop this area as a complete residential unit. Basic principles were that all fast and heavy through-traffic would be excluded, access to peripheral main roads restricted, industry and commerce excluded, neighbourhood facilities grouped together, and new residential development should conform to proper requirements as to light, air and density.

"No shops or commercial buildings front onto main roads in the plan. It is not disputed that shops thrive on a main road, but in that position they tend to encourage parking, and the crossing of pedestrians causes traffic delay and road accidents. Surprisingly, objections were few, particularly when the Council informed shopkeepers that they intended not to let the new shops to the highest bidders but to negotiate with existing shopkeepers where this was desired.

"The prediction of many planning officers is that difficulties of transport will become so intense that people will shop more and more in the outskirts. In Kingston-upon-Hull, at the present time, the reverse appears to be true.

Planning Procedure

"Planning procedure for redevelopment is involved and lengthy, but it ensures that all land requirements receive fair and adequate consideration, as does the provision of alternative sites for uses displaced. The Minister of Housing and Local Government is willing to make a grant of 50 per cent. of the loss involved in the difference between the costs of acquisition, clearance and preliminary development and the new values created.

"In order to peg land values whilst redevelopment is in progress it is desirable for a local authority to take Comprehensive

Development Area procedure under the Town and Country Planning Acts, rather than by the alternative powers of acquisition under the Housing Acts. Procedure under the Housing Acts is quicker, but it requires special circumstances for it to be considered, and may give rise to complications.

"The financial estimates for the area in question indicated that the cost of acquisition of 143 acres would be £1,590,000 (about £11,000 per acre), the costs of clearance, preliminary development and diversion of services £456,000 (about £3,000 per acre). The total cost of acquisition, clearance and preliminary development would therefore be about £14,000 per acre. The value of land for disposal is estimated to be about £858,000 (£6,000 per acre), involving a loss of about £8,000 per acre.

"It is possible to step up these figures to indicate the size of the national problem. It has been estimated that there are 847,100 unfit houses in England and Wales: if they were cleared in 10 years an annual expenditure of £20m. and a loss of £11m. could be expected.

Private Enterprise Redevelopment

"The difficulties of private enterprise redevelopment, as opposed to public authority redevelopment, are immense. Local authorities can, in some circumstances, receive grants and housing subsidies which are not available to the private developer. They can also benefit financially when clearance or unfit orders can be made for acquisition of properties. Where there are several owners, acquisition is virtually impossible without compulsory powers.

"It is debatable whether it is socially desirable to leave matters to the private developer: resettling existing shopkeepers and industrialists may involve letting alternative premises at uneconomic rents, and the cost of high density development may make it difficult for the private developer to provide for the low-rented tenant who must live near his work."

COLLEGE FEATURES UNUSUAL TIMBER ROOF DESIGN

CARMEL COLLEGE in Oxfordshire is to be the setting for a timber shell roof of unusual design. Three shells, described by the consultant engineer, Mr. H. Tottenham, as cubic hyperboloids, will cover a synagogue built in the form of a 50ft. sided pentagon.

There are no internal supports, the whole weight of the roof being carried on

the five points of the pentagon. The height of the building at the entrance will be 20ft. and at the other two points the roof will sweep down almost to ground level. Two walls will be of solid construction and the two others will be made up of panels of glass between plywood box mullions.

A laminated timber spike will carry the highest point of the pentagon, with timber columns at each side of the entrance and

concrete blocks in metal shoes at the two low points. The edge beams and valley beams of the roof will be of laminated timber and a laminated timber rib will support the roof across the entrance. The underside of the roof will be varnished, exposing the natural grain and colour of the wood and the outside of the roof will be sheeted with copper. Overall length of the building is 104ft., the roof cantilevering 75ft. over the entrance. Overall width is 86ft.

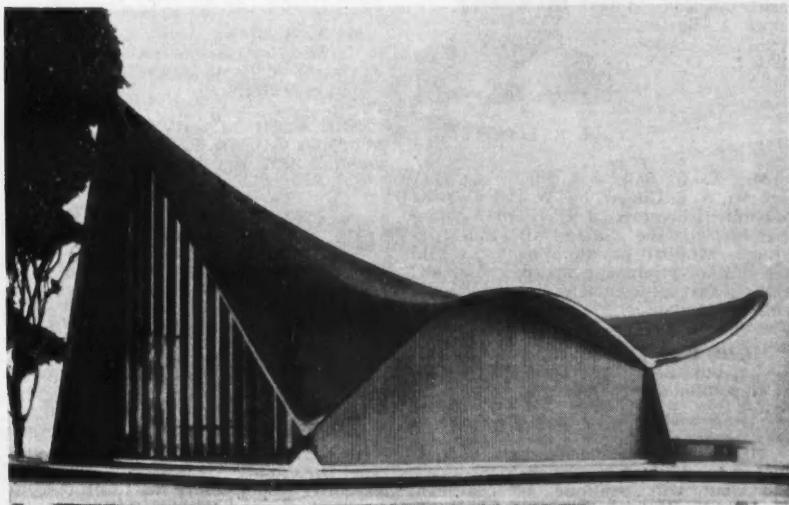
BUILDING SURVEYORS ANNUAL DINNER

A plea for cheaper houses was made by Mr. Hugh Rees, M.P., F.R.I.C.S., when he proposed the toast of the Institute of Building Surveyors at the recent annual dinner of the London and Home Counties Area. The area president, Mr. S. A. Engel, was in the chair.

Mr. Rees said that the building surveyor could play an important part in reducing the cost of houses, so that more dwellings could be built within the range of the lower-paid workers. Housing was still the most pressing need that the Government had to face.

Mr. Donald Wood, junior vice-president of the Institute, proposing the toast of the London Area, said that one of the main reasons for the high price of houses today was the very excessive cost of land. In Birmingham building land was costing £10,000 per acre, and more. He thought the Government should do something to stop the ever-increasing cost of land as they were the only body who could do so.

Guests at the dinner were welcomed by Mr. George Chequers, F.Bldg.S.I. Mr. Layfield, F.R.I.B.A., responded.



A model of the proposed building

Men and Movements

THE appointment to the board of **Mr. J. W. Charnley** and **Mr. J. J. G. Michie** has been announced by John Laing and Son, Ltd. Mr. Charnley is returning from Africa to take up his appointment as head of the overseas division. He joined the company in 1950 from the Air Ministry and went to Johannesburg in 1955, where he subsequently succeeded **Mr. D. P. Marriott** as chairman and managing director of the Laing companies in Africa. Mr. Michie joined the company as a pupil in 1930 and since then has been responsible for carrying out many important contracts. He was project general manager for the Laing section of the London-Birmingham motorway prior to his appointment as head of the company's commercial division, which position he retains.

Mr. R. G. Martin has been appointed an additional vice-chairman of Tarmac, Ltd. **Mr. S. W. Sangwin** and **Mr. G. R. Baxter** were appointed directors of Tarmac Roadstone, Ltd., and **Mr. A. J. Loveland** and **Mr. C. E. Moore** were appointed directors of Tarmac Civil Engineering, Ltd.

International Harvester Company of Great Britain, Ltd., have announced the appointment of **Mr. Harold E. Norris** as manager of domestic sales. He succeeds

Mr. H. D. Frymire who recently became director of sales. Mr. Norris joined I.H. in 1936 and has held various offices in the sales organisation. For the past 10 years he has been responsible for the company's advertising, sales promotional and public relations activities. Succeeding Mr. Norris as manager of merchandising services is **Mr. K. B. Smith**, who has been assistant manager since January, 1959. Other managerial changes at I.H. are the appointments of **Mr. T. F. Butler** as assistant manager of domestic sales and **Mr. J. E. Busby** as manager of sales engineering, a new department.

Among passengers sailing for Canada recently was **Mr. V. F. Bartlett**, a partner in the London firm of consulting engineers, Mott, Hay and Anderson.

After 25 years' practice as a consulting engineer, **Mr. Leslie Turner** has retired from the partnership with Leslie Turner and Partners. He will, however, continue his association with the firm as consultant.

Mr. W. F. Amies succeeds **Mr. C. V. Oliver** as chief executive of the Reed group's converted products division and is appointed to the board of The Key Engineering Co., Ltd.

Cochran and Co., Annan, Ltd., have announced the appointment of **Mr. A. D. C. Gunn**, B.Sc.(Eng.), M.Sc., F.Inst.F., as technical director.

The Royal Institution of Chartered Surveyors have announced that their Gold Medal for 1961 will be conferred upon **Professor Philip H. White**, who holds the Chair of Real Estate in the Faculty of Commerce and Business Administration in the University of British Columbia, Vancouver, Canada. Prior to this appointment he was the head of the valuation department of the College of Estate Management in London, and a member of the Board of Governors of that college.

Lt.-Col. H. G. W. Peace, who has been representing Quarry Plant Hire Service (North West), Ltd., as their sales representative in Lancashire for the past 18 months, has been appointed to the position of joint sales and service manager. He is being succeeded in Lancashire by **Mr. W. W. Jones**, previously with H. Leverton and Co., Ltd.

The appointment of **Mr. J. C. O. Hallam** as joint managing director has been announced by Vic Hallam, Ltd. Mr. Hallam first entered the business during 1925, and joined the board in 1935.



J. C. O. HALLAM

Embarking on the "Queen Elizabeth" last week for the United States was **Mr. E. G. Loudoun**, a senior director of George Wimpey and Co., Ltd.

The appointment of **Mr. W. Tomkinson** as a director has been announced by The Cement Marketing Co., Ltd., a member of The Blue Circle group of companies. Mr. Tomkinson has been 29 years with the group and is responsible for its selling organisation in Birmingham. He is already a director of four subsidiary Blue Circle companies: Nottinghamshire Gypsum Products, Ltd.; Stone Court Ballast Co., Ltd.; Queslett Sand and Gravel Co., Ltd., and T. J. Graham and Sons, Ltd.

Mr. J. A. Jackson, works director of Wolf Electric Tools, Ltd., has been making a 10 days' business visit to the company's branch at Toronto. The company have also announced the appointment of **Mr. Klaas van Walraven** as sales supervisor for Holland.

Hills Plant, Ltd. have announced the appointment of **Mr. I. R. Llewellyn** to be responsible for the hire department of the company at their newly opened head office at Burleigh Street, London, W.C.2.



I. R. LLEWELLYN

Mr. A. C. Ball, B.Sc.(Eng.), A.C.G.I., and **Mr. A. E. Gilbert**, F.C.W.A., have been appointed directors of Hayward Tyler, a member of the Stone-Platt Industries group. Mr. Ball has for some years held the post of production manager, and Mr. Gilbert that of commercial manager and chief accountant.

Mr. D. G. Iles, contracts manager with Gydar, Ltd., Bath, has resigned to take up an appointment this month in the United States.

Mr. P. M. Holman has retired as joint managing director of Holman Brothers, Ltd., but will continue as chairman. **Mr. J. F. Holman** becomes managing director.

Tecalemit, Ltd., has appointed the following executive directors: **Mr. T. R. Hardman** becomes executive director (sales) to be responsible for all the company's sales departments and those of the subsidiaries; **Mr. H. E. Jackson**, B.Eng., executive director (engineering) responsible for design, development and engineering activities of all the group; and **Mr. J. E. Drinkwater**, executive director (production) responsible for production in the group.

Mr. W. L. Marchant, managing director of Tersons, Ltd., has been appointed to the board of directors of The Power Securities Corporation, Ltd. Mr. Marchant is also managing director of Duncan Watson (Electrical Engineers), Ltd., and Stent Precast Concrete, Ltd., all of whom are part of The Power Securities Corporation group of companies.

The Yale and Towne Manufacturing Company have announced the appointment of **Mr. Harry Marshall** as export sales manager of its British lock and hardware division.

J. I. Case Co., Ltd., have announced the appointment of **Mr. Humphrey Whiteway** as area representative for Lancashire and Cheshire.

Mr. A. E. Grimshaw will retire at the end of this month after 14 years' service with Raybestos-Belaco, Ltd. He is succeeded by **Mr. Frank Dawson** as eastern regional manager, covering Norfolk, Suffolk, Cambridge, Huntingdonshire, Bedfordshire, Northamptonshire and Essex.

MUNICIPAL

Consequent upon the retirement of **Mr. C. Harper**, as borough engineer at Barking, **Mr. A. H. Loader** has been appointed borough engineer; **Mr. J. W. H. Kell**, becomes deputy borough engineer; and **Mr. W. E. Outterside**, chief engineering assistant.

The first president of the newly constituted International Federation of Municipal Engineers is **Mr. John L. Beckett**, city engineer at Leicester.

Mr. Sidney Price, engineer and surveyor to Hemsworth (Yorks.) R.D.C. for 30 years, has retired for health reasons. He has served with the Council since 1924.

Mr. A. J. Bebbington, who has been acting engineer and surveyor to Whiston (Lancs.) R.D.C. since the death of **Mr. Watson Garbutt**, has been appointed engineer and surveyor.

Mr. Raymond J. Ash, deputy city architect at Newcastle upon Tyne, has been appointed deputy city architect at Birmingham in succession to **Mr. Sheridan-Shedden**, who becomes city architect at Leeds.

Mr. L. H. Brown, engineer and manager to the Mid-Northamptonshire Water Board, is visiting Malta to advise on water distribution problems.

After nearly 30 years in the service of Middlesex C.C., **Mr. E. L. Gunston**, a group architect with the Council, has retired.

NEW DIRECTOR-GENERAL OF WORKS AT M.O.W.

Mr. A. J. Filer, C.B., general manager of the Directorate General of Works, will retire in August. Thereafter the Directorate General will consist of **Mr. C. G. Mant**, C.B.E., F.R.I.B.A., who will be appointed director-general, **Mr. E. Bedford**, C.B., C.V.O., A.R.I.B.A., chief architect, and **Mr. A. B. Mann**, C.B.E., B.Sc.(Eng.), M.I.C.E., M.I.Mech.E., chief engineer. The Directorate General will have joint executive responsibility for all professional services in the department, including works, lands and accommodation services.

In Parliament

OVER 300,000 HOUSES WILL AGAIN BE BUILT THIS YEAR

Highest Completion Figures Since 1946

DURING the debate on housing in the Commons last week, the Minister of Housing and Local Government, Mr. Henry Brooke, said his recent forecast that over 300,000 houses would again be completed this year, became a forecast of well over 300,000 providing the present outlook materialised.

The end of March figures showed 31,000 more houses under construction in England and Wales than there were a year ago, he said. Private enterprise houses under construction were up by 18,000 and houses being built by local and other public authorities were up by 13,000. These were the highest March figures since 1946.

Mr. Brooke again expressed disapproval of those local authorities who were "making it harder" for themselves by heavily subsidising out of the rates council tenants who could afford to buy houses for themselves. He still looked to the stimulus given to house-purchase continuing this year. Building Societies in 1959 had financed on mortgages £530m.—and all-time record. To that figure must be added the £50m. a year advanced by local authorities to house-purchasers.

Improvement grants were playing their part in helping the situation, he stated. Last year, under the legislation concerned, the figures of houses improved by use of the grants from a rate of 35,000 a year to nearly 80,000.

On the question of overspill, Mr. Brooke said that the problem should not be exaggerated. There were only five or six cities in England and Wales where there were difficulties.

Housing Loans

Mr. Frank Allaun asked the Chancellor of the Exchequer if, in view of recent Government action to control credit, he would make a statement on future policy with regard to council-house building loans and programmes.

Mr. Derek Heathcoat Amory replied that capital investment by local authorities did not come within the scope of the measures to restrain the expansion of private credit

which he announced on April 28. He therefore saw no need for a statement.

Mr. Allaun: Will the right hon. Gentleman give the House an undertaking at least that there will be no further increase in the interest rates on housing loans, since the doubling of these rates has already halved the council house programmes in the last five years and there is a growing demand for cheaper and not dearer loans?

Mr. Amory: I am afraid that I can give the hon. Member no such assurance. As he knows, the rates charged by the Public Works Loan Board depend upon the current rates for comparable loans in the market.

Mr. H. Wilson: Is the Chancellor aware that very few councils can obtain loans from the Public Works Loan Board, even if they were at a reasonable rate? Is he further aware that to restore the housing subsidies at the full rate would cost only about £5m. a year? Since his right hon. Friend the Minister of Defence told us last week that he did not think that £500m. was an excessive burden on the economy, does the Chancellor realise what a great effect it would have on council house rents, and the finances of local authorities if he restored housing subsidies?

Mr. Amory: I am quite sure that our present policies are right. I do not understand what the right hon. Gentleman means when he says that local authorities find it practically impossible to obtain loans from the Public Works Loan Board.

Housing (Scotland)

Replying to Mr. Millan, the Joint Under-Secretary of State for Scotland, Mr. T. G. D. Galbraith, said he expected that about 19,000 Scottish local authority houses would be completed in 1960, which was 16 per cent. less than in 1958, but almost 2 per cent. more than in 1959. About 10,000 unfit houses would be demolished or closed this year.

British Embassy, Brasilia

In a written answer, the Minister of Works, Lord John Hope, informed Mr. Parker that he fully appreciated the archi-

tectural significance of the new Brazilian capital. He hoped that the new British Embassy would be a notable contribution to it. His Permanent Secretary and chief architect were visiting Brasilia to consider future plans.

Graving Dock, Greenock

Questioned by Dr. Dickson Mabon, the President of the Board of Trade, Mr. Reginald Maudling, in a written answer said he was awaiting confirmation from the promoters of the proposed Greenock graving dock that they had accepted the terms offered to them by the Government.

Maidstone By-pass

The Minister of Transport, Mr. Ernest Marples, informed Mr. J. Wells that the eastern and longer section of the Maidstone By-pass and a short length of the western section should be completed and open to traffic by Whitsun. The rest of the western section would not be completed until the autumn because of unforeseen difficulties with the foundations of the new Medway Bridge.

Bridges

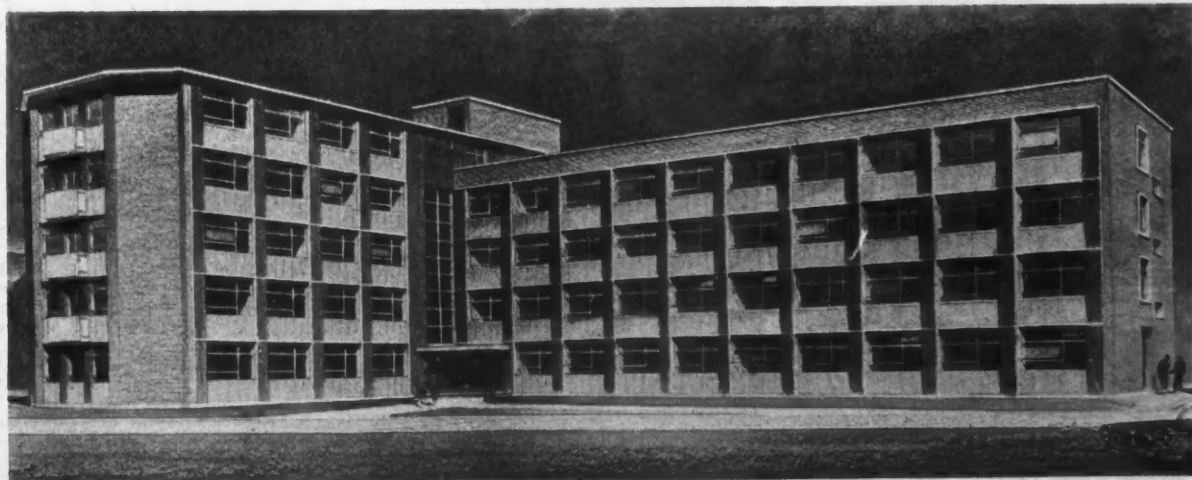
Commander Pursey asked the Minister to what extent it was now his practice to approve the building of bridges over rivers which were expected to be immersed in the river at extraordinary high water spring tide; when this practice commenced; and how many bridges had been approved which were expected to be immersed at such tides.

In a written answer, Mr. Marples replied: It has always been my Department's practice to consider the design of each particular bridge in the light of the relevant factors, of which the level of tides is one. When, in exceptional cases, a bridge design envisages that part of the sub-structure may on certain occasions be immersed, the design is approved only if the balance of advantage, taking into account all these factors, lies in so doing. I regret that I have no information on which to base a reply to the last part of the question.

£600,000 LOCOMOTIVE DEPOT PLANNED

A new depot for the maintenance and servicing of main line diesel locomotives is to be built at Landore (Glam.) by British Railways (Western Region).

Plans entail the provision of a four track maintenance shed of reinforced concrete. Modern staff amenities and offices will be provided to the shed. It is estimated the scheme will cost about £600,000.



An artist's impression of Alexander House, a new office block now under construction at Waterhouse Street, Hemel Hempstead. Comprising 38,150 sq. ft. of accommodation, the building has been designed by Trehearne and Norman Preston and Partners, the main contractors being Bernard Sunley and Sons

Talking of Safety

by

"DRAGEE"

AS we walked back across the site, carefully avoiding the puddles, Mr. Clarke beckoned to the foreman erector to come and join us. Len Johnson had been on another part of the site when "Calamity Joe" met with his accident, and now he looked a very worried man.

"I can't help feeling it was my fault," he said. "I might have guessed something would happen when Jack Spiller was around. Never knew such a man for finding trouble."

"You were not in the least to blame," said Mr. Clarke, firmly. "As it happened, there was a fault in the system, but that was a matter of organisation for which I am entirely responsible. There were too many damn whistles on the job, but in future there will be only one—and that will be used for the crane."

We had reached the scene of the accident, where a few erectors were unloading another delivery of steel. The sky was now clear so they had dispensed with the whistle and were using hand signals of a somewhat nondescript nature. At the moment of our arrival the banksman was making a beckoning gesture with an index finger, which the driver rather naturally took to indicate forward travelling. The front wheels were almost immediately checked by a girder lying in their path, and the machine stopped abruptly.

Johnson stepped towards the charge-hand. "We've had enough trouble here for one day," he said. "You know the correct signals—see that you use 'em, or we'll be having more accidents."

This was one of those moments when the Safety Officer's popularity takes a big dive. Work proceeded with slightly exaggerated care for several minutes, and then we moved away. All the same, the men had a good deal of respect for Johnson and I knew they would heed his warning.

"I was telling Mr. Clarke about a new signalling chart I came across recently," I said. "I think we should have copies printed on plastic or metallic plates and mounted on the inside and outside of all our crane cabins. There would be no excuse for giving confusing signals, then."

"Dragee," who is a practising safety engineer, would welcome subjects for discussion in this column. All names of persons mentioned in these discussions are entirely fictitious. Questions of law are expressed as the author's personal opinions and are not claimed to be authoritative.—EDITOR.

It was agreed that this was probably a good solution to the problem—and in fact it has since proved to be so.

Later that afternoon the Agent and I were discussing Jack Spiller's unfortunate record of accidents.

"When did he first arrive on this site?" I asked.

"Oh, six months ago I should say. In that time he's had a series of minor accidents—without losing much time—and two or three rather more serious mishaps. He's what you might call 'accident prone'."

I smiled. This is a term which is used very widely amongst safety people, and one which produces a good deal of argument. Some people contend that there is no such thing as accident proneness, but others—including myself—are more cautious.

"Perhaps that rather depends upon the type of accident he suffers from," I replied. "If he's apt to be exactly on the spot where the brick falls, or where the scaffold plank breaks or where the lightning strikes, I would say that he is simply unlucky. But if he's the type who is always tripping over his own bootlaces or hitting his own thumb with the hammer, he would certainly appear to be accident prone, and I should want to find the cause."

"I think poor old Jack is in the first category," said Mr. Clarke. "That business with the crane was just typical of his brand of trouble. Only he doesn't always land in hospital—more often it's merely a bit of first aid. We used to think our Client's new nurse at the Welfare Centre was the attraction, but even Spiller wouldn't knock himself cold for her benefit. He's just dead unlucky. What can we do about it?"

"Nothing for a case like that."

"But what about the genuine accident-prone individual?"

"If there is such a characteristic," I replied, "I am certain it can only be the effect of some personal disability. It may be a purely physical defect such as bad eyesight or poor hearing, or else a form of muscular weakness. In some cases it may be the result of old age. The trouble can arise from a nervous or psychological origin, producing lack of confidence or some other symptom of nervousness. It could be defective hand-and-eye co-ordination. There are also combinations of these things, of course. So if you have a case on your hands he may need quite a bit of watching to find out where the trouble lies."

"How far are we responsible for these people?"

"If we know that a man is disabled in some way, we owe him a special duty of care while he's in our employ. If he's physically or mentally incapable of working safely on the job we should try to find something more suitable for him, but if that is not practicable we would really have no choice in the matter. In certain cases we might ask the man to get medical opinion, but there is no hard-and-fast rule. Our natural sympathy for the underdog will usually be the deciding factor in the end."

NATIONAL INDUSTRIAL SAFETY CONFERENCE

Mr. E. R. Heath, Minister of Labour, will open this year's National Industrial Safety Conference, organised by the Royal Society for the Prevention of Accidents, in the Spa Concert Hall at Scarborough on Friday evening, May 27.

The Minister will speak under the chairmanship of the Society's president, Sir Howard Roberts, and will be preceded by an official welcome given by the Mayor of Scarborough.

Mr. R. H. Coates, divisional controller of the Southern Division of the Central Electricity Generating Board, will then present his Paper entitled "The Specialist as Part of the Team." The theme of this Paper is likely to be reflected in the general tone set by all the working sessions of the conference.

The presentation of the "Sir George Earle Trophy" will take place during the session on Friday evening. This Trophy is awarded annually by the Society for the most outstanding contribution to industrial safety during the preceding year.

B.A.S. COURSE AT MANCHESTER

For the convenience of building firms in the North and Midlands, the Building Advisory Service, in conjunction with the Manchester Association of Building Trades Employers, is arranging an instructional planning course to be held in Manchester.

The course starts on June 13, and is designed for potential planning officers of buildings firms. It will be of four weeks' duration and the difficulties arising from the absence of staff for this length of time have been, it is hoped, somewhat reduced by running the course in three periods of one week, two weeks and one week, with a week's break between each to enable the students to return to their firms.

Full details of the course can be obtained from B.A.S., 82 New Cavendish Street, London, W.1., or The Secretary, The Manchester, Salford and District Building Trades Employers Association, 2 Conyngham Road, Victoria Park, Manchester, 14.

STONE GROUP BOARD CHANGES

Executive changes within the Stone Group of Companies include the appointments of Mr. Cecil R. Setter, J.P., F.I.O.B., as chairman and joint managing director and Mr. John B. Setter, F.I.O.B., as joint managing director of the Group.

Other reorganisation throughout the Group has taken place, as follows:

Stone and Co. (Bristol), Ltd., have appointed as executive directors—Mr. K. I. Crossley, F.C.A.; Mr. C. S. Hogg, A.I.O.B.; Mr. M. G. Sinclair, A.I.O.B.; Mr. R. R. Green; and Mr. T. A. H. Allen. Central Electrical Installations, Ltd., have appointed Mr. K. I. Crossley, F.C.A., and Mr. H. S. Stansbury as executive directors. Western Contractors Services, Ltd., have appointed Mr. K. I. Crossley, F.C.A., and Mr. P. M. Knight as executive directors. C. and J. (Agencies), Ltd., have appointed Mr. K. I. Crossley, F.C.A., as an executive director.

Mr. R. W. Harrow, A.I.C.S. has been appointed secretary of Stone and Co. (Bristol), Ltd., and C. and J. (Agencies), Ltd.



"You're the first catch we've had since we started on this job, sir!"

International Construction

LIGHTING SYSTEM INSTALLED AT JAMAICA'S PALISADOES AIRPORT

A COMPREHENSIVE airfield lighting system has been installed at Jamaica's new airport on the Palisadoes peninsula which will enable it to be fully operational for 24 hours a day.

The installation consists of low-intensity runway and threshold and approach lighting, taxiway lighting, a location beacon, two illuminated wind cones and obstruction lights, together with switchgear, transformers, control equipment and cable. Apron floodlighting will be installed later, when the terminal buildings and apron have been completed.

In addition, an illuminated taxi route indicator has been installed alongside one of the taxiways, which divides into two.

Runway Lighting

Spaced at 200ft. intervals along each side of the runway are ZA.205 low-intensity elevated runway lights, fitted with 45-W 6.6-A tubular lamps. These lights are omni-directional and have a maximum intensity of 450 candelas. The lights of the first and last thirds of the runway are equipped with 180 degrees amber filters for range indication.

To minimise damage to an aircraft if it collides with the lights, the overall height above ground of the fittings has been kept down to 10½ in. and the mountings incorporate a weak link.

The runway lights are supplied with current by two separate interleaved series ring circuits, each circuit being fed by a sub-station at either end of the runway. If one circuit should fail, the lighting pattern will be maintained but with alternate lights only, or at double the normal spacing.

Each light is fed by a series isolating transformer, the primary windings of all transformers on a circuit being connected in series on the ring cable. As the output voltage of the isolating transformers is low, lamps or fittings can be replaced safely while the circuit is live.

The threshold lights, ten at each end of the runway, are of the same type as the runway lights but are fitted with green filters and have asymmetric refractors to concentrate the beams up and down the runway.

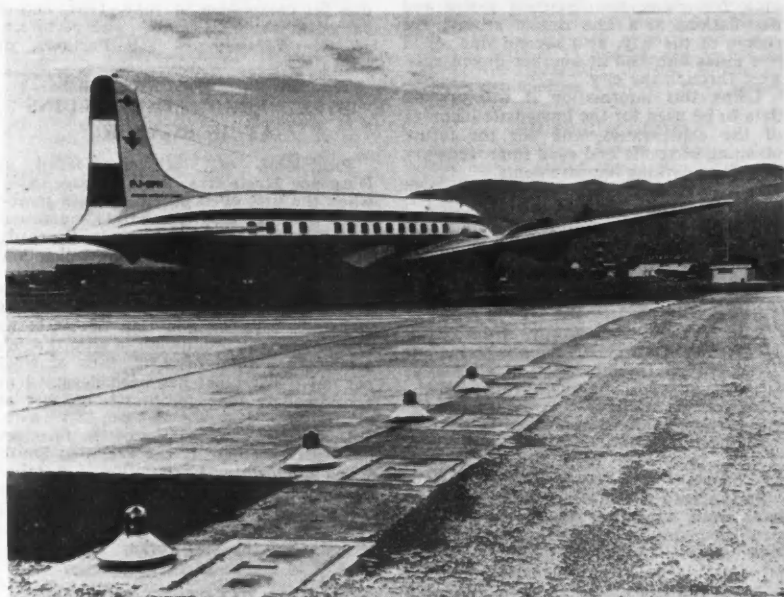
Approach lighting consists of ZA.400 red low-intensity omni-directional lights with 200-W lamps, the maximum intensity of which is about 180 red candelas.

The west approach lighting consists of a 1,600ft. centre-line of lights spaced 200ft. apart, with a 100ft. wide crossbar 1,000ft. from the end of the runway. These lights

1,000ft., and a 100ft. wide crossbar at the outer end. This lighting is supplied by the east sub-station.

Brightness of all the runway and approach lighting can be controlled in three steps: maximum, 30 and 10 per cent.

Flush ZA.202 taxi lights with blue filters are installed along the edges of the taxi-



Threshold lighting at the east end of the runway

are mounted on piles driven into the seabed and the fittings have cast-iron metalwork to resist salt water corrosion. Isolating transformers are strapped to the piles and current is supplied from the west sub-station through cable anchored to the seabed by concrete blocks.

Approach lighting at the east end is of the same type but with a shorter centre-line of

ways and are on series circuits similar to those of the runway lighting system.

To control the movement of aircraft using exit taxiway No. 3—which divides into two routes leading to the terminal area—a ZA.610 illuminated taxi route indicator has been installed. The indicator consists of a black fibre-glass panel about 3ft. square with the junction pattern marked in white. Lights set in each arm of the junction diagram indicate the route to follow.

Control

The lighting circuits are fed from two cubicle-type switchboards, one in each sub-station. Each circuit on the switchboards is provided with local control facilities to enable the lighting to be operated from the sub-stations if required.

All airfield lighting is remotely controlled from a control desk in the control tower over telephone cables. This desk is equipped with switches for runway direction, lighting brightness control and circuit selection and has a mimic diagram of the whole installation. Miniature lamps in the mimic diagram represent actual circuits on the airfield and appropriate lamps light up when a particular circuit has been selected. A crash alarm system for alerting crews in the crash tender station has also been provided.

Consultants and Contractors

The consultants for the runway, taxiways, etc., and the airfield lighting system are Sir Alexander Gibb and Partners, London, S.W.1, and Norman and Dawbarn, London, W.1, are responsible for the terminal buildings and layout of the terminal area. The General Electric Co., Ltd., London, W.C.2, supplied the lighting system, which was installed in collaboration with Barlow and Young, Ltd., London, S.W.1, at a cost of about £60,000.



Night view of the west approach and runway lighting

International Construction

U.S. ENGINEERS TO DESIGN SYDNEY EXPRESSWAYS

MR. P. D. HILLS, New South Wales Minister for Highways, has announced that an American firm of engineering consultants will design expressways for the central metropolitan area of Sydney, at an estimated cost of £200,000.

It is expected that the company—De Leuw, Cather and Company—will begin work in a few weeks' time. Investigations and planning will be in four phases. In the first phase the company will question motorists about their starting places and destinations at a line drawn around the centre of the city, at a second line about five miles out, and at another drawn east-west through the city.

Using this information it will prepare data to be used for the immediate planning of the expressways, and for the future planning of traffic and road improvements, as well as parking improvements.

In the second phase the company will prepare general plans for:

The Warringah expressway, from the northern end of the Harbour Bridge to Ernest Street, North Sydney.

The western distributor, from the southern end of the bridge to near Jones Street, Ultimo.

The western expressway, from Jones Street to Annandale. This is to include the Ultimo interchange, and alternative alignments for the main route of the expressway.

Alternative alignments for the eastern distributor, from Sir John Young Crescent, to Moore Park Road at Driver Avenue.

In the third phase, after the general plans have been approved the firm will make detailed plans which will include the location and alignment of each roadway, structural details, relative costs of alternative types of construction, relocation of public and private utilities, foundations and estimates of costs.

The fourth phase will involve the preparation of complete working drawings for the Warringah expressway, brought to the stage where tenders could be called. It is expected that this will take nine months.

Orders for school buildings totalling nearly £60,000 have been received by Taylor Woodrow (Building Exports), Ltd., marketing member of the Arcon Group of prefabricated building manufacturers, from educational authorities in Northern Nigeria and the West Indies.

LAING START ON RHODESIA HOTEL

JOHN Laing and Son (Rhodesia), Ltd., have commenced work on the construction of a new hotel and shops at Kitwe, Northern Rhodesia, for Heinrich's Syndicate, Ltd. The first phase of the scheme, including 14 ground floor shops, comprises four storeys with provision for the addition of a further two floors to contain an extra 31 bedrooms.

On the first floor of the hotel there is to be a dining room with sprung dance floor, a lounge, bars and open terraces. The second and third floors will each contain 16 bedrooms with private bathrooms.

The first phase of the development is due for completion in June, 1961, and is valued at about £230,000. The architects are Horace Williams and Partners, of Kitwe.

STEEL PRODUCTION BEGINS AT DURGAPUR

Production of steel commenced at Durgapur Steelworks, West Bengal, India, when the first open hearth furnace in the steel melting shop came into operation recently. The second furnace is also ready for operation and the third one will follow soon.

The Durgapur plant will eventually have eight open hearth furnaces, seven of 200 tons capacity and one of 100 tons capacity for the production of special steel, producing a total of 2,800 tons of steel per day. The plant has been designed to accommodate four additional furnaces at a later date.

Design and construction of the furnaces has been executed by the Wellman Smith Owen Engineering Corporation, a member company of ISCON—the British consortium of 13 leading engineering and electrical companies engaged in the construction of the steelworks.

HYDRO-ELECTRIC SCHEME NEAR OWEN FALLS

A preliminary design, with draft contract documents, has been prepared by Kennedy and Donkin, and Sir Alexander Gibb and Partners, for a 180-MW hydro-electric scheme at Bujagali, 4½ miles downstream of Owen Falls, in Uganda.

According to the 1959 annual report of the Uganda Electricity Board, a preliminary description, suitable for prospective tenderers, has also been prepared but no commitment of any kind has been made to proceed with the scheme. Arrangements have been made for carrying out intake and tailrace model tests this year.

INDIAN ORDERS FOR ALLEN ENGINES

A LARGE contract for diesel engines, dual-fuel engines and diesel engine-driven generating sets with associated switchgear, for a crude oil pipeline project in Northern India, has been secured by W. H. Allen and Co., Ltd., Bedford.

Exceeding £600,000, the contract has been placed by The Burmah Oil Co. (Pipe Lines), Ltd., London, on behalf of Oil India (Private), Ltd., Calcutta. A total of 51 Allen engines are to be supplied, 30 for pumping duties in nine stations, and 21 for electricity generation in seven power stations.

This crude oil pipeline is the largest project of its kind in the world at the present time. The pipeline itself is designed to transport crude oil from the developing Nahorkatiya field in upper Assam to refineries at Gauhati in Assam and Barauni in the State of Bihar, a distance of 720 miles. From the fields at Nahorkatiya, it follows the line of the south bank of the Brahmaputra River to the first refinery at Gauhati, where it crosses the river by suspension bridge and then proceeds northwards around the East Pakistan border, and continues along the north bank of the Ganges River to the second refinery at Barauni. A spur line will also be laid from a small field down line at Moran.

At the dispatching stations, which are located in the oil fields, natural gas is available in large quantities, and it is at these stations that the dual-fuel engines will be located.

At the down line stations the engines will be of the straight diesel type throughout. All the engines will be naturally aspirated and arranged to use the crude oil from the line as fuel. Many technical problems are associated with the use of the crude oil as fuel because of its low flash point (22 degrees F.), and high wax content (setting point 85 degrees F.). The oil is non-Newtonian in character at temperatures below the pour point, its viscosity being dependent on the rate of mechanical shear. Special features will be incorporated in the engine design to take care of the unusual properties of the oil.

The pipeline is required to be fully operational by early 1962, and delivery of the Allen engines will commence in July 1960, so that work can commence on site in the dry season beginning October 1960.

EURATOM PLANS 250 NUCLEAR POWER STATIONS

The European Atomic Energy Commission announced in Brussels recently that it planned to construct 250 nuclear power stations for the six nations of the European Economic Community by 1980.

In its third annual general report the Commission said that great effort would have to be made in the next 20 years by the six Governments for nuclear co-operation for peaceful purposes. Without this effort the position of the community in the world would be irreparably harmed. The Commission also announced that the University of Europe, intended mainly for nuclear research, would be opened in the autumn of 1961—probably in Florence.

MALTA WATER SUPPLY CONTRACT

A contract has been placed by the Government of Malta with Pace and Darmanin, Ltd., 16 Tal-Borg Street, Pawla, Malta, for water supply works, estimated to cost £69,700. The contract provides for the construction of an underground concrete barrier, of 700ft. maximum length and 30ft. maximum height, with combined access and pumping shaft; erection of a pumping station with masonry walls and reinforced concrete roofs; and laying of about 1,000yd. of 8in. spun-iron pipe.

Binnie, Deacon and Gourley, Artillery House, London, S.W.1, are the consulting engineers.



An artist's impression of the \$5m. head office building which Taylor Woodrow (Canada), Ltd., are constructing for the Ford Motor Co. of Canada, between Toronto and Hamilton. To be completed in April, 1961, the building has been designed by Allward and Gouinlock, of Toronto, the consulting mechanical engineers being R. P. Allsop Associates, Ltd.

Current Constructional Activities

PROJECTS • CONTRACTS • AWARDS

THIS editorial feature provides readers with a comprehensive news service covering forthcoming private and public construction work. Commencing on this page information is given concerning future projects followed by details of tenders being invited. In the third section will be found news of tenders recommended for acceptance, tenders accepted and contracts awarded. Attention is also drawn to the advertisements covering contracts and appointments appearing in the front part of the *Journal*.

BUILDING AND DECORATING

(See also Housing Schemes)

Eastry, Kent.—R.D.C. to invite tenders for the external painting of 233 Council houses in various parishes during this year.

Grantham, Lincs.—B.C. recommended to approve plans for public conveniences at Wyndham Park.

Guildford, Surrey.—B.C. recommended to appoint J. B. Marks and Partners, 41 Parliament Street, London, S.W.1, as quantity surveyors, for the extension of the municipal offices in the Upper High Street redevelopment scheme; invite Sir William Holford, architect, 2a Angel Street, London, E.C.2, to act in an advisory capacity in connection with the central area redevelopment; approve scheme and invite tenders for the erection of new depot and vehicle repair shop on site at sewage disposal works. Estimated cost £70,000.

Havant, Hants.—C.C. recommended to grant outline permission to Marsh Plant and Machinery Co., Ltd., 23 South Street, Emsworth, to use land on the east side of New Lane for erection of workshop and offices.

Kent.—E.C. propose additional accommodation at Northfleet Secondary School for Girls, Northfleet Secondary School for Boys, Mary Sheafe Secondary School for Girls, Cranbrook and Wildernesse Secondary School for Boys, Sevenoaks; science and horticultural building for Aylesham Secondary School. Estimated cost £7,500.

Lambeth.—L.C.C. approved the conversion of 274 South Lambeth Road into flats and maisonnettes. Estimated cost £13,850.

Larne, Antrim.—East Antrim Hospital Management Committee propose to erect a new medical block at Moyle Hospital. Estimated cost £100,000.

Leamington Spa, War.—B.C. recommended to approve layout plans submitted by Rayner and Fedeski, architects, 28 Parade, for the erection of a community centre at Edinburgh Crescent. Estimated cost £21,500.

Leicester.—City Council recommended to approve plans for the second phase of the Gold Hill Boys' Secondary School. Estimated cost £59,181.

Lewisham.—L.C.C. approved the erection of changing accommodation at Beckenham Place Park. Estimated cost £27,000.

Leyton, Essex.—B.C. recommended to apply for sanction to borrow £3,800 for the erection of 20 garages at Ashville Road, Kings Road and Argyle Road.

Manchester.—Town Planning Committee have approved erection of district library and central travelling library depot on site of the old Hulme town hall and library in Stretford Road, Hulme; approval, in principle, granted to scheme for public hall in the Wythenshawe civic centre.

Norwich.—City Council recommended to approve layout for 62 garages and hardstanding for 22 cars at South Park Avenue, Lower Hellesdon and Tuckswood.

Potters Bar, Middx.—Clifford Culpin, architect, 39 Doughty Street, London, W.C.1, has prepared plans for the erection of a civic centre (in two stages) at Wyllyotts Manor, for U.D.C.

St. Austell, Corn.—U.D.C. to prepare revised plans for the erection of a civic hall. Estimated cost £50,000 to £75,000.

Scunthorpe, Lincs.—B.C. recommended to prepare detailed plans and invite tenders for the construction of a vehicle depot at Station Road.

Sheffield.—City Council recommended to appoint Whitehead and Nodder, 15 Montgomery Road, quantity surveyors for reinstatement of shop premises at Campo Lane and Hawley Street.

South Molton, Devon.—R.D.C. to prepare plans for the modernisation of Council houses, including the provision of bath-rooms.

Surrey.—L.C.C. approved the repair of ablutions blocks at Marchant's Hill rural centre, Hindhead, and Sayers Croft rural centre, Ewhurst, Hambledon. Estimated cost £7,398.

Sutton and Cheam, Surrey.—B.C. recommended to approve sketch plans for erection of public convenience at Downs Road, Belmont.

Swindon, Wilts.—B.C. recommended to invite tenders from selected contractors for the provision of 75 garages at Penhill, 30 at Pinehurst and 15 at Walcot.

Tyrone.—C.C. propose to erect an old people's home at Omagh. Estimated cost £100,000.

Watford, Herts.—B.C. recommended to approve plans for the erection of a flatted factory at plot 10, Holywell Industrial Estate.

Wood Green, Middx.—B.C. recommended to appoint quantity surveyors and invite tenders in due course for erection of a branch library at Alexandra Park.

Woolwich.—L.C.C. approved a scheme for the erection of a day special school for delicate children at Rose Cottage. Estimated cost £90,640.

Worcester.—City Council recommended to approve in principle scheme for the provision of new public swimming facilities at Sansome Walk. Estimated cost £224,000.

DEMOLITION

Beddington and Wallington, Surrey.—B.C. recommended to approve demolition of Grange Mansion.

Grantham, Lincs.—B.C. recommended to invite tenders for the demolition of 16 buildings at Alma Park.

ELECTRICAL

Beddington and Wallington, Surrey.—B.C. recommended to invite tenders for re-wiring of electrical installations of 157 houses at Bute Road and Demesne Road estates.

Guildford, Surrey.—B.C. recommended to invite tenders from selected contractors for installation of electrical services at new central library.

FENCING

Middlesex.—C.C. recommended to approve fencing of proposed central playing field at Heston and Isleworth. Estimated cost £1,230.

GAS AND WATER SUPPLY

Aylesbury, Bucks.—R.D.C. have approved plan for the erection of a concrete reservoir with a steel water tower at Hengrove Wood, Chivery, Aston Clinton, for the Bucks Water Board.

Dagenham, Essex.—B.C. recommended to apply for sanction to borrow £5,000 for the renewing of defective district heating pipes at Heath Park estate.

Dorchester.—B.C. recommended to prepare amended plans for the construction of a one million gallon service reservoir at the Waterworks site. Consulting engineers for the scheme are Ritchie and Partners, Alton, Kitsbury Road, Berkhamsted, Herts.

Mayo, Eire.—Patrick J. Tobin, 22 Eyre Square, Galway, is the consulting engineer for the proposed Achill Island water supply scheme, for C.C. Estimated cost £150,000.

Norwich.—City Council recommended to approve the laying of water mains to serve the parishes of Plumstead and Postwick. Estimated cost £23,000.

Sheffield.—City Water Committee have approved extensions and renewals of water mains, estimated cost £20,690; City Council recommended to authorise the construction of an alternator and pump house, on land adjoining the Redmires Filter Station, for accommodating the diesel alternator stand-by power unit for the filter station and the pumping plant for the Rud Hill Service Reservoir, estimated cost £9,500.

Swindon, Wilts.—B.C. recommended to approve scheme for laying of 830yd. of 4in. water main at the Southdown Farm estate, south of Oxford Road. Estimated cost £2,240.

HARBOURS, PIERS AND SEA DEFENCE WORKS

Stonehaven, Kincardines.—Harbour Trust, have approved repairs to the fish jetty. Estimated cost £6,600.

HEATING AND VENTILATING

Guildford, Surrey.—B.C. recommended to invite tenders from selected contractors for installation of heating in new central library.

Swindon, Wilts.—B.C. recommended to invite tenders from selected contractors for the installation of (a) new primary circulating pumps at Stations 5A and 5B, and (b) booster pumps with measuring devices in the 5B Circuits in connection with the district heating scheme.

HOUSING SCHEMES

Barrow-in-Furness, Lancs.—Housing Committee have approved layout plan for 60 flats type A, together with a block of 10 garages, on the Yew Tree Farm estate.

Brentwood, Essex.—Ministry have approved plans for the erection of approx. 250 houses at Shenfield, for Daniel T. Jackson, Ltd., Pegasus Works, Roebuck Road, Ilford.

Doncaster, Yorks.—B.C. recommended to approve proposals submitted by J. H. Langtry-Langton, architect, 8 Oak Mount, Manningham, Bradford, for erection of two caretakers houses for the St. Peter's R.C. Secondary School and R.C. Grammar Technical School. Estimated cost £5,000.

Hackney.—B.C. recommended to authorise development of the remainder of the Shackwell Road and Somerford Grove site by erection of 58 flats and 18 garages. Total estimated cost £193,090.

Hainault, Essex.—L.C.C. approved the development of three sites at Hainault estate by the erection of 12 terrace houses, 12 flats, 36 garages and eight tenants' stores; eight terrace houses and 24 garages; and seven terrace houses and 10 garages. Estimated cost £78,100.

Kingston-upon-Thames, Surrey.—B.C. recommended to approve in principle, scheme for erection of two blocks of flats and maisonnettes on sites of 31, 33 and 37 Surbiton Road and 30/40 Penrhyn Road as part of scheme for redevelopment of Surbiton Road; provision of seven old people's bungalows at Waters Square.

Leeds.—City Council recommended to approve in principle layout plan for erection of one block of four-storey maisonnettes comprising 12 dwellings on the Wykebridge estate and negotiate with Reema Construction, Ltd., for the erection of the dwellings; layout plan for erection of eight blocks of four-storey maisonnettes comprising 64 dwellings on the Queenshill estate and negotiate with G. Wimpey and Co., Ltd., for the erection of the dwellings; to approve layout plan for erection of a second 10-storey point block of flats off Raynville Road for submission to the Town Planning Committee.

Lewisham.—L.C.C. approved the development of the Grove Park Road site at a cost of about £883,700. The total accommodation of 309 dwellings will be mainly in terraces of two-storey houses, with some two-storey flats, bungalows for old people, and an 11-storey block of flats.

Mitcham, Surrey.—B.C. recommended to approve outline plans for six cottage flats at 112 Tamworth Lane.

Co. Planning Committee have scheme for conversion and extension of Little Glebelands, Love Lane to form 13 old people's flats, for B.C.

Newquay, Corn.—U.D.C. propose the erection of a block of old people's flats at St. Piran's Road.

Peterborough.—City Council recommended to approve in principle, draft layout for 140 dwellings and 70 garages and provision of sites for a primary school, R.C. church, etc., at Welland Road; appoint Howard V. Lobb and Partners, 20 Gower Street, London, W.C.1, as architects, for the proposed block of flats at Oundle Road site.

Southwold, Suffolk.—B.C. recommended to prepare layout plans for a block of six flats at junction of Hotson Road and Cautley Road.

Swindon, Wilts.—B.C. recommended to approve in principle the construction of a number of multi-storey flats at Penhill, Walcot and Park North Neighbourhood for inclusion in the 1961-62 housing programme.

Wandsworth.—B.C. recommended to approve sketch designs for 23 dwellings forming

Phase 2 of the Spencer Park site, and to appoint Andrew S. Roberts and Partners, 17 Cromwell Place, London, S.W.7, as the quantity surveyors; recommended to approve redevelopment of the St. Ann's Hill sites with 59 dwellings.

B.C. recommended to approve a scheme for redevelopment of Cautley Avenue sites with 22 dwellings (E. R. Saxon Snell, architect, 6 New Square, London, W.C.2); B.C. also recommended to approve sketch plans prepared by Clifford E. Culpin, 39 Doughty Street, London, W.C.1, for the Edgcombe Hall housing scheme.

Clifford E. Culpin, 39 Doughty Street, W.C.1, is the architect for the redevelopment of Edgcombe Hall, for B.C. The scheme includes 54 houses, 68 maisonnettes, 154 flats and 32 dwellings for elderly people—two 14-storey point blocks will be incorporated. Estimated cost £790,800.

ROADS, BRIDGES AND SITE WORKS

Hereford.—City Council recommended to prepare schemes for improving the Broomy Hill Road-Breinton Road junction and Old School Lane Railway Bridge and plans for Yazor Road Bridge; approve, in principle, and submit to Ministry for approval, proposals for east-west relief road.

Hillingdon, Middx.—C.C. recommended to approve, subject to M.T. approval and grant aid, schemes for the construction of short length of service road along Uxbridge Road and a lay-by fronting Hillingdon Laundry. Estimated cost £3,250 and £1,550, respectively.

Honiton, Devon.—B.C. have approved C.C.'s revised plans for the construction of the Honiton by-pass, including the provision of fly-overs at each end of the by-pass instead of roundabouts.

Larne, Antrim.—R.D.C. propose to extend Islandmagee cemetery. Estimated cost £15,000.

Leamington Spa, War.—B.C. recommended to apply for sanction to borrow £2,712 for the establishment of a car park adjoining the community centre site at Lillington; £11,240 and £7,090, respectively, for the reconstruction of carriageways in Tachbrook Street and Gresham Street.

Leeds.—City Council recommended to authorise expenditure of £42,260 for site works and construction of roads and sewers in the Belinda Street redevelopment area, and £46,100 for siteworks and construction of roads and sewers on site E on the Swinnow estate, area 2.

City Council recommended to authorise expenditure of £24,000 for improvement of Lidgett Lane.

Luton, Beds.—B.C. have approved plans for making-up Wellgate Road, Pembroke Avenue (part), Dordans Road (part), Rosslyn Crescent and Selbourne Road (part).

Manchester.—Highways Committee have approved specification and plans for strengthening and extension of arches at Wakefield Street.

Middlesex.—C.C. recommended to approve, subject to M.T. approval and grant aid, scheme for resurfacing Great Chertsey Road from Whitton Road to east of London Road, estimated cost £6,670; new surface water drains, etc., in Old Bath Road, from Longfield River Bridge to level crossing, £6,200; raising of kerb and resurfacing of Watford Road from north of Duckers Bridge to Northwick Walk, £8,400.

Mitcham, Surrey.—B.C. recommended to prepare plans for the making-up of Century Road.

Norwich.—City Council recommended to approve schemes for improvements to the Civil Defence training ground at Mousehold, and laying out of land between Bedding Lane and Whitefriars Street as a car park. Estimated cost £1,750 and £3,400, respectively.

Penryn, Corn.—B.C. recommended to apply for sanction to borrow £7,000 for improvements at St. Thomas Street, New Street, Glen View, and the entrance to Greenwood Crescent.

Ramsgate, Kent.—B.C. recommended to prepare plans for widening and improving Northwood Road to borough boundary during 1961-62.

Rochester, Kent.—City Council to submit to Ministry, for approval, a scheme for widening New Road.

Rugby, War.—B.C. recommended to approve, in principle, scheme for the construction of a link road to connect Boughton Road with the Leicester Road diversion, and instruct the Borough Surveyor to prepare detailed drawings, etc., of the road and bridge works, estimated cost £36,000; approve various road works in Railway Terrace, Murray Road, Barby Road, Limetree Avenue and Overslade Manor estate, £13,850.

Ruislip and Northwood, Middx.—C.C. recommended to approve, subject to M.T. approval and grant aid, scheme for reconstruction of Long Drive from Victoria Road

to South Ruislip Station. Estimated cost £5,470.

Scunthorpe, Lincs.—B.C. recommended to apply for sanction to borrow £48,460 for lay-out and drainage works at the new cemetery; approve plans for the construction of a car park at rear of Henry Street and Mary Street.

Sheffield.—City Council recommended to authorise city engineer to carry out widening of Archer Lane between Edge Dale Road and Brincliffe Edge Road. Estimated cost £3,700.

Southall, Middx.—C.C. recommended to approve, subject to M.T. approval and grant aid, scheme for reconstruction of Dormers Wells Lane (section 1) from Uxbridge Road to Dormers Wells School. Estimated cost £7,365.

Southampton.—B.C. recommended to approve schemes for the reconstruction of part of Elm Street, completion of the Canal Walk service road and construction of a short length of road connecting Cable Street with Wilson Street.

Southgate, Middx.—C.C. recommended to approve, subject to M.T. approval and grant aid, schemes for realignment of junction of Winchmore Hill Road, Eversley Park Road, Hounsden Road and Church Hill, estimated cost £2,700 and resurfacing of High Street, Cannon Hill, £7,500.

Staines, Middx.—C.C. have approved, subject to M.T. approval and grant aid, scheme for construction of bus bays on both sides of Kingston Road, east of Fenton Avenue. Estimated cost £2,230.

Stoke-on-Trent, Staffs.—City Council recommended to prepare scheme for a lay-by at junction of Peck Hill Lane and Biddulph Road; approve scheme and apply for sanction to borrow £2,750 for the construction of a link road between London Road and South Wolfe Street; approve plans for making-up of eight roads at Burslem.

Tipton, Staffs.—B.C. recommended to prepare plans and documents and invite tenders in due course for the construction of roads and sewers at Groveland Road site.

Tottenham, Middx.—C.C. recommended to approve, subject to M.T. approval and grant aid, scheme for reconstruction of West Green Road from Philip Lane to Avenue Road. Estimated cost £14,500.

Uxbridge, Middx.—C.C. recommended to approve, subject to M.T. approval and grant aid, scheme for provision of footway in Breakspear Road from Spotted Dog to Breakspear Mansions, estimated cost £6,220; reconstruction of Rickmansworth Road from Halls Drive to South of county boundary, £5,880.

Wandsworth.—L.C.C. approved a scheme for improvement of the intersection of Portsmouth Road, Kingston Road and Roehampton Vale. Estimated cost £73,200.

Welwyn, Herts.—R.D.C. have approved in principle scheme for the provision of car park at Prospect Place.

Wembley, Middx.—C.C. recommended to approve, subject to M.T. approval, scheme for reconstruction of Woodcock Hill from Draycott Avenue to Kenton Road. Estimated cost £50,000.

Worcester.—City Council recommended to approve in principle, plans for the future widening of Spetchley Road and improvement of Bransford Road at junction of Malvern Road and St. Johns.

Worthing, Sussex.—B.C. recommended to approve plans for making-up Wiston Avenue (part); proposal to construct a lay-by in front of the Old Town Hall.

SEWERAGE, SEWAGE AND REFUSE DISPOSAL

Aylesbury, Bucks.—R.D.C. is considering a sewerage scheme for Ashendon and Pollicott.

Bath, Som.—Ministry have authorised City Council to invite tenders for construction of a storm water relief sewerage scheme at Newbridge Road. Estimated cost £7,250.

Bradford, Yorks.—City Council recommended to apply for sanction to borrow £14,750 for construction of sewers, etc., to connect sewage flow from certain houses in Esholt Village to main Esholt sewage disposal works.

Bridge Blain, Kent.—R.D.C. to prepare and submit to C.C., for planning consent, sewerage scheme for Ashford Road and Tonford Lane area. Estimated cost £16,300.

Leeds.—City Council recommended to approve extension of the existing foul and surface water sewers in Westland Road. Estimated cost £21,000.

Leyton, Essex.—B.C. recommended to apply for sanction to borrow £80,000 for the reconstruction of sewage pumping station, together with lengths of main outfall and trunk sewers from the low level areas.

Norwich.—City Council recommended to approve schemes for the provision of foul and surface water sewers in St. Phillips Road, connection to public sewers of 29 properties

in the Mill Lane-Hellesdon Road area, and construction of foul sewers to serve seven houses in the Hellesdon Hall Road and Hellesdon Road area. Estimated cost £6,440, £3,000 and £1,040, respectively.

Peterborough.—City Council recommended to approve, in principle, scheme for extension of western trunk sewer to cover area to north of airfield.

Plymouth.—City Council recommended to apply for sanction to borrow £9,372 for the reconstruction of the foul water sewer and storm water sewer at Brent Knoll Road, Peverell.

Scunthorpe, Lincs.—B.C. recommended to apply for sanction to borrow £20,000 for the construction of screens, detritor and storm water overflow at Ashby sewage works.

Seaton, Devon.—U.D.C. to apply for sanction to borrow £95,700 for the construction of new sewerage and sewage disposal works.

STREET LIGHTING

Bath, Som.—City Council recommended to proceed with scheme for the installation of sodium lighting at Greenway Lane.

Greenwich.—Replacing existing lanterns on lighting columns at Shooter's Hill Road, between Well Hall Road and Delacourt Road, with 200-watt sodium linear type lamps, for B.C.; A.E.I. Lamp and Lighting Co., Ltd., 132 Long Acre, London, W.C.2, £1,203 (recommended).

Rochester, Kent.—City Council preparing scheme for converting street lighting from gas to electricity in Rochester Avenue, Vines Lane, Darnley Road and a part of Wilson Avenue. Estimated cost £6,000.

Sunbury, Middx.—U.D.C. recommended to approve the second stage of street lighting scheme. Estimated cost £19,000.

Tipton, Staffs.—B.C. recommended to apply for sanction to borrow £1,500 for the installation of electric street lighting in place of the existing gas lamps, at Tipton Green estate.

Wandsworth.—B.C. recommended to approve, in principle, completion of the installation of improved street lighting throughout the borough. Estimated cost £161,912.

CONTRACTS

Full details of the Contracts marked * will be found in our Advertisement Columns.

BUILDING AND DECORATING (See also Housing Schemes)

Andover, Hants.—Painting of 138 dwellings at the following estates, for R.D.C.: Abbots Ann Down, Abbots Ann, four; Mount Pleasant, Amport, six; Branksome Close, Chilbolton, 38; North Acre, Longparish, 18; Rectory Place, Weyhill, six; old people's bungalows, Penton Mewsey, two; Etwell, Quarley, 12; Sarum Close, Shipton Bellinger, 10; Parkhouse Close, Shipton Bellinger, 26; Dean Terrace, Vernham Dean, six; Stoney Drive, Vernham Dean, two; Barrow Hill, Goodworth, Clatford, four; North Acre, Longparish, four. Documents from the Engineer and Surveyor, Council Offices, Junction Road, Andover. Tenders by May 26.

Armagh.—External and internal maintenance works at Clay Primary School, for Very Rev. J. Canon Pentony. Documents from McLean and Forte, 37 Malone Road, Belfast, 9. Deposit £3 3s., by cheque. Tenders by May 20.

Ballymoney, Antrim.—Alterations to property at Bushmills and the formation of a shop and store, for R.D.C. Documents from the Clerk to the Council, Riada House, Ballymoney. Tenders by May 18.

Barnsley, Yorks.—Erection and completion of three blocks of shops and houses on Yews Farm estate, for B.C. Each block consists of two shops and two three-bedroom houses. Documents from the Borough Engineer, Town Hall, Barnsley. Deposit £2 2s. Tenders by May 23.

Boldon, Dur.—Exterior painting of houses as follows, for U.D.C.: 150 at Boldon Colliery; 102 at West Boldon; 16 at East Boldon; 84 at Cleadon; 160 at Whitburn. Documents from J. T. Edmondson, surveyor, Council Offices, East Boldon. Tenders by May 24.

Camberwell.—Repainting of street lighting columns, for B.C. Tenders by June 1.

Cardiff.—Following, for City Council: (a) Teacher Training College, The Heath, off King George V Drive—alterations and additions; (b) children's convenience, mess room and stores at Hodges Row, Butetown, Cardiff. Documents from the City Architect's Department, 12 Park Place, Cardiff. Deposit £2 2s. each, cheques payable to Corporation. Tenders by May 17.

Cardiganshire.—New bathroom at Blaen-dyffryn Lodge, Llandysul, for C.C. Docu-

ments from the County Architect, County Hall, Aberystwyth. Tenders by May 27.

Carlisle.—Grammar school extension 2, for City Council. The structure is in reinforced concrete construction with a considerable amount of prestressed work. Documents from City Surveyor, 18 Fisher Street, Carlisle. Tenders by May 31.

Ceiriog, Denbighs.—External painting of the following, for R.D.C.: Eight houses at Maesywern, Dolywern, near Wrexham; eight houses at Tanybryn, Pontfadog, near Wrexham; 10 houses at Wernfadog, Pontfadog, near Wrexham; 16 houses at Maesmeredydd; 104 houses at Church View, Chirk, near Wrexham; 12 houses at Church View, Chirk, to be Snow-cemented; The Mortuary, Chirk, near Wrexham; public conveniences, Chirk, near Wrexham; public seats at Pontfadog, near Wrexham (10 seats); fencing and gates, Pontfadog sewage disposal works; fencing, Glyn Ceiriog sewage disposal works; fencing, ironwork and woodwork, Pandry filter house, Glyn Ceiriog; fencing, ironwork and woodwork, reservoir site and Garth water supply. Documents from R. W. Aubrey, surveyor to the Council, Council Offices, Chirk. Deposit £1 ls. Tenders by May 21.

Clun, Salop.—Installation of new cookers and plumbing systems to four houses at Eytton Lydbury North, for R.D.C. Documents from H. Bramwell, surveyor, District Council Offices, The Square, Bishop's Castle. Tenders by May 20.

Clun, Salop.—Exterior painting of 26 houses situated at Marton Brockton Worthen and Snailbeach, for R.D.C. Documents from H. Bramwell, surveyor, District Council Offices, The Square, Bishop's Castle. Tenders by May 20.

Cork, Eire.—Erection of airport buildings at Cork for Ministry of Transport and Power, comprising terminal building, control building, fire station, freight building, and boiler house; paths and sundry site works. Documents from the Department of Transport and Power, Kildare Street, Dublin. Deposit £25 Tenders by May 23.

Cornwall.—Following work, for C.C.: (1) Lambourne Farm, Perranzabuloe, additions to and sanitation improvements to farmhouse; (2) rotational painting and repairs—Meudon Farm, Mawnan, three holdings; Trevease Farm, Constantine, two holdings; Lanhydrock estate, Helland, five holdings. Documents from R. T. Holdway, county land agent, 2 Strangways Terrace, Truro. Tenders by May 28.

Devonshire.—Erection of assembly hall, kitchen, admin. rooms, cloakrooms, etc., at Exminster County Primary School, for C.C. Applications to County Architect, 97 Heavitree Road, Exeter, by May 18. Deposit £3 3s., cheque payable to C.C.

Dewsbury, Yorks.—Following works, for B.C.: (a) Internal and external painting and decorating at various schools and; (b) retiling part of roof at Moorlands Open Air School. Documents from the office of the Borough Architect and Buildings Surveyor, Town Hall, Dewsbury. Tenders by May 18.

Dewsbury, Yorks.—Erection of a salt and sand store at George Street Depot, for B.C. Documents from the office of the Borough Architect and Buildings Surveyor, Town Hall, Dewsbury. Tenders by May 25.

Dewsbury, Yorks.—Following works, for B.C.: (a) Internal and external painting and decorating at various schools; and (b) retiling part of roof at Moorlands Open Air School. Documents from the office of the Borough Architect and Buildings Surveyor, Town Hall, Dewsbury. Tenders by May 18.

Down.—Undermentioned flooring work in Redburn (new) Primary School, Holywood, for Co. E.C.: (a) lin. hardwood block flooring; (b) hardwood strip flooring; (c) terrazzo flooring; (d) thermoplastic tile flooring. Documents from R. H. Gibson and E. D. Taylor, architects, 16 Donegall Square South, Belfast, 1. Deposit £3 3s. Tenders by May 19.

Down.—Complete plumbing installation at New Grammar School in Newtownards, for Co. E.C. Documents from W. D. R. and R. T. Taggart, architects, 13 College Gardens, Belfast, 9. Deposit £5 5s. Tenders by May 19.

Dunbartonshire.—Reconstruction of the road depots at (a) Millburn, Alexandria and (b) Blackcraigs, Condorrat, for C.C.: (a) The work at Millburn Depot involves the erection of a steel framed building overall size 204ft. by 37ft. providing garage accommodation and staff accommodation together with central heating system; (b) the work at Blackcraigs Depot involves the construction of a steel framed structure overall size 160ft. by 37ft. providing garage, workshop and staff accommodation, together with central heating plant. Applications to James R. Aitken, deputy county surveyor, 88 College Street, Dunbarton, by May 16.

Durham.—Easington Technical College (2nd instalment), for C.C.: (a) Erection; (b) reinforced concrete frame. Applications to County Architect, South Street, Durham, by May 18.

***East Elloe, Lincs.**—Painting of water towers, for R.D.C. Deposit £1 ls. Tenders by May 28.

East Suffolk.—Following major works of re-painting, for C.C.: Leiston Junior C. School—internal and external; Beccles Grammar School—internal and external; Felixstowe Modern School—internal only; Framlingham Modern School—External only. Applications stating school for which the applicant wishes to tender, should be made to the County Architect, County Hall, Ipswich, before May 20. Tenders by June 24.

East Suffolk.—Extensions of some 5,000 sq. ft. floor area in light construction at third floor level over the existing buildings at County Hall, Ipswich, for C.C. Applications to County Architect, County Hall, Ipswich, by May 24. Tenders by June 14.

***Ellesmere Port, Ches.**—New public library, for B.C. Deposit £5 5s. Tenders by June 24.

Essex.—Two additional classrooms at Thurrock Trolls County Secondary Girls' School, for C.C., comprising the completion of existing teaching block to form two additional classrooms at ground level, in traditional construction. Estimated cost £4,000. Applications to H. Conolly, county architect, County Hall, Chelmsford, by May 14.

Faringdon, Berks.—Provision of bathrooms, etc., at Faringdon (66 houses), Hinton Waldrist (14 houses), and Stanford-in-the-Vale (16 houses), for R.D.C. Applications to Engineer and Surveyor, Council Offices, Market Place, Faringdon, Berks., by May 21. Deposit £2 2s.

***Feltham, Middx.**—Extension of mortuary, Sunbury Road, for U.D.C. Deposit £2 2s. Tenders by June 8.

Flintshire.—Painting and decorating the following schools, for Co. E.C.: Maelor District—Bangor-on-Dee V.P. (C.)—external; Talwrn Green V.P. (C.)—external. Documents from W. Griffiths, county architect, Llywnegrin, Mold. Deposit £1 ls. each school, cheques payable to C.C. Tenders by May 30.

Glamorgan.—Erection of a garage in the county highway depot, Dinas Powis, for C.C. The building is to be constructed in concrete blocks with built up roof, external dimensions 75ft. x 26ft. Documents from the County Surveyor, Glamorgan County Hall, Cardiff. Tenders by May 21.

***Glossop, Derbys.**—Modernisation of Wood's Baths, for B.C. Tenders by June 8.

Grantham, Lincs.—Refelting approx. 500 sq. yd. of flat roofing, for B.C. Documents from the Borough Surveyor, Guildhall, Grantham. Tenders by May 23.

Great Yarmouth.—Improvements to lavatories at the following, for B.C.: (1) Northgate St. Andrew's Infants' School; (2) Nelson and St. George's Schools. Documents from F. Jackson, schools' architect, 22 Euston Road, Great Yarmouth, from May 18. Deposit £1 ls. each. Tenders by June 18.

Great Yarmouth.—Internal redecoration of Gorleston Girls' School, Beccles Road, Gorleston-on-Sea, for B.C. Documents from F. Jackson, schools' architect, 22 Euston Road, Great Yarmouth, from May 18. Deposit £1 ls., cheques payable to Corporation. Tenders by June 1.

Great Yarmouth.—External redecoration of six schools, for B.C. Contractors may tender for one or more schools. Documents from F. Jackson, schools' architect, 22 Euston Road, Great Yarmouth, from May 18. Deposit £1 ls., cheques payable to Corporation. Tenders by June 1.

***Greenwich.**—Additional sanitary accommodation, etc., at Dutch Almshouses, for B.C. Apply by May 17.

***Harrogate, Yorks.**—Street lighting building, for B.C. Tenders by May 23.

Herefordshire.—Alterations and extensions in brick construction to form a kitchen and dining-room at Holmer V.C. School, Hereford, for C.C. Applications to the County Architect, Bath Street, Hereford, by May 18. Deposit £2 2s.

Hornsea, Yorks.—Alterations to entrance, incinerator, Atwick Road, for U.D.C. Work required includes the construction of a reinforced concrete lintel, the insertion of two steel joists, 12ft. long, and other incidental works. Documents from Surveyor, Town Hall, Hornsea, Yorkshire. Tenders by May 21.

Huddersfield, Yorks.—Alterations to Royds Hall Secondary School, for B.C. Documents from the Borough Architect's Office, High Street Buildings, Huddersfield. Deposit £1 ls. Tenders by May 23.

Hungerford, Berks.—Erection of lock-up garages and ancillary works at the two undermentioned sites, for R.D.C.: Woodbury, Lambourn—24; The Crescent, Kintbury—10. Documents from the Surveyor, The Priory, Hungerford. Deposit £2 each, cheque payable to R.D.C. Tenders by May 25.

Huyton-with-Roby, Lincs.—Design and supply and erection of structural steelwork in connection with a single-storey stores and office building approx. 68ft. x 68ft. Applica-

tions to the Architect and Housing Director, Grasscroft, Archway Road, Huyton, by May 16.

Ilford, Essex.—Erection of 12 garages in Wensleydale Avenue, for B.C. Documents from the Borough Engineer, Town Hall, Ilford. Deposit £2 2s. Tenders by June 1.

Inverness-shire.—Additions and alterations to Croy J.S. School, for C.C. The works comprise concrete and brick, carpenter and joiner, plumber and drainage, slater, plaster and cement and painter works. Applications to County Architect, The Castle, Inverness, by May 16.

Inverness-shire.—Erection of a depot at Diriebught, Inverness, for the County Water Engineer's Department, for C.C., comprising concrete and brick, carpenter and joiner, plumber and draining, plaster and cement, painter and heating and electrical works. Applications to the County Architect, The Castle, Inverness, by May 17.

Kerry, Eire.—Additions and alterations to Bon Secours Hospital, Tralee, Co. Kerry. Documents from J. R. Boyd Barrett, chartered architect, 5 Camden Street, Cork. Deposit £10 10s. Tenders by May 27.

Keynsham, Som.—Re-felting Uni-Seco bungalows at Sherwood Road, Keynsham, and Lansdown Road, Saltford, a total of 20 bungalows, for U.D.C. Documents from the Engineer and Surveyor, Council Offices, Keynsham, Bristol. Tenders by May 23.

Lanarkshire.—Erection of a new primary school at Balmuldry Road, Bishopbriggs, for 680 pupils, for C.C. The contract will be a several works contract, and only contractors who can act as principal contractors should apply. The works will comprise the following trades: Excavator, concrete and brick, etc.; carpenter and joiner; glazier; bituminous felt roofing; plumber and gasfitter; plaster, tiler and floor finishes; heating; electrical; rough-cast and cement. Written applications to Ian V. Paterson, county clerk, Lanarkshire House, 191 Ingram Street, Glasgow, C.I. by May 20, including the names of sub-contractors from whom it is intended to take orders.

Lancashire.—Erection of a six-bay ambulance station at Kirkby, for C.C. Building to be of single-storey traditional construction with felted roof, and work to include drainage, site works services and finishes. Applications to the County Architect, P.O. Box 26, County Hall, Preston, by May 16.

Liverpool.—Construction of the following, for City Council: (a) changing accommodation, Bankfield Playing Fields, West Derby; (b) changing accommodation, Thomas Lane Playing Fields, Knotty Ash; (c) access road (approximately 200ft. long) and drainage, Kirkby estate. Documents from the City Architect and Director of Housing, Blackburn Chambers, Dale Street, Kingsway, Liverpool, 2. Deposit £2 2s. each. Tenders by May 24.

Liverpool.—Strengthening of floors at Salisbury County Primary School, William Henry Street, for City Council. Documents from the City Engineer and Surveyor, Municipal Buildings, Liverpool, 2. Tenders by June 9.

Llangollen, Denbighs.—Following, for U.D.C.: Demolition, repair and painting of existing sheds and sheep and cattle pens, re-surfacing of car park and extension, together with drainage and other incidental works. Documents from the Surveyor's Office, Town Hall, Llangollen. Deposit £2 2s. Tenders by May 31.

Loddon, Norfolk.—Water and drainage services to the following, for R.D.C.: Eight houses, Church Road Woodton; 12 houses, Church Road, Topcroft. Applications to Meen and Collis, architects, Station Road, Beccles, by May 18. Deposit £1 ls.

Lunesdale, Lancs.—External painting of 86 houses and two shops, for R.D.C. Documents from the Housing Manager, Council Offices, Lunesdale. Tenders by May 18.

Manchester.—Following, for City Council: (a) Soil investigation at the Regional College of Art, All Saints; (b) design and supply of steel reinforcement and the supply and erection of structural steelwork at Whalley Range High School for Girls. Documents from the City Architect, P.O. Box 488, Town Hall, Manchester. Tenders by May 18.

Meriden, War.—Erection and completion of 57 garages, together with incidental site works, in various parishes, for R.D.C. Documents from the office of the Engineer and Surveyor, the Old Vicarage, Coleshill, near Birmingham. Deposit £2 2s. Tenders by May 30.

Middleton, Lancs.—External painting of 361 houses, to be tendered for in separate lots, for B.C.: 80 houses, three-bedroom—Hollin estate, fifth section; 68 houses, three-bedroom—Hollin estate, fifth section; 36 flats, one-bedroom—Hollin estate—fifth section; 87 houses (1930 Act)—Boarshaw estate; 90 houses (1924 Act)—Boarshaw estate. Docu-

ments from the Borough Architect, Town Hall, Middleton, near Manchester. Tenders by June 3.

Mid-Wales.—The following for Police Authority: (a) 54 Greenland Road, Brynmawr—external painting and repairs; (b) Ystradgynlais Police Station and court—internal redecoration; (c) Ystradgynlais Police Station courtroom, police houses 1 and 3—external painting; (d) Brynmawr Police Station—internal redecoration; (e) Cefn Coed Police Court—part internal redecoration. Applications to T. Jestyn Williams, county architect, Rhyl Offices, Brecon, by May 16.

Mitcham, Surrey.—External painting of the following, for B.C.: New Close (No. 2) estate and Ravensbury (No. 1) estate—108 houses; Bordergate and Swains Farm estates—518 houses; Tamworth Lodge (No. 1) estate and Tamworth Lane flats—90 houses and flats; Elm nursery estate—159 flats in three blocks, three-four, five and six storeys; Sundry Council Properties (1955 Act)—62 houses. Documents from the Borough Engineer and Surveyor, Town Hall, Mitcham. Tenders by May 21.

***Morecambe and Heysham, Lancs.**—Public conveniences opposite Happy Mount Park, for B.C. Deposit £2. Tenders by June 7.

Nantwich, Ches.—External repainting of the following houses, for R.D.C.: Eight at Bickerton, six at Checkley, 10 at Cholmondeston and Wattenhall, six at Worleston, 24 at Wrenbury and six at Weston. Documents from the Engineer and Surveyor, Stapeley House, Nantwich. Deposit £1 ls. Tenders by May 25.

Neath, Glam.—Erection of public convenience at Neath Abbey, for R.D.C. Documents from the office of the Engineer and Surveyor, 18 Orchard Street, Neath. Deposit £3 3s. Tenders by May 24.

Newbury, Berks.—Exterior redecoration of Phoenix House, works to include minor repairs, for R.D.C. Documents from the Surveyor, Newbury R.D.C., Phoenix House, Bartholomew Street, Newbury. Tenders by May 31.

Newcastle upon Tyne.—A major expansion programme is being carried out at Prudhoe and Monkton Hospital, the work being divided into four consecutive phases each lasting approximately 18 months, for Regional Hospital Board. In the third phase it is proposed to erect the following buildings in two separate contracts: (a) First contract: (1) one single-storey 60-bed villa: brick, slated roof, floor area approximately 16,000 super. ft. (2) one single-storey 40-bed villa: brick, slated roof, floor area approximately 9,000 super. ft.; (3) two-storey extension to existing nurses' home: brick, slated roof, floor area approximately 8,000 super. ft. (B) Second contract: (1) Four two-storey 25-bed villas: brick, slated roof, total floor area approximately 20,000 super. ft.; (2) one single-storey 30-bed villa: brick, slated roof, floor area approximately 7,000 super. ft.; (3) a two-storey school: steel-framed construction, with felt-covered timber flat roof, floor approximately 25,000 super. ft.; (4) two two-storey houses for medical staff. Documents available in May or early June, 1960. Building work expected to start in September, 1960. Applications to the Secretary of the Board, Benfield Road, Newcastle upon Tyne, 6, by May 18, stating in which contracts applicants are interested.

Newcastle upon Tyne.—Erection of a branch library at Denton Burn, for City Council. Applications, in writing, to Henry Wood, architect, 2a Ridley Place, Newcastle upon Tyne. Tenders by May 24.

Newtownabbey, Antrim.—Alterations and improvements to the Town Hall, for U.D.C. Documents from the Town Surveyor, Town Hall, Whitehouse, Newtownabbey. Deposit £3 3s. Tenders by May 23.

Oswestry, Salop.—External repainting of 240 houses situated in the undermentioned areas, for R.D.C.: Gobowen—Hammonds Place, 44; Ferndale Crescent, 22; Daywell Crescent, 10; St. Martins—Greenfields, 62; Whittington—Penybryn Avenue, 72; Park Hall, 30. Documents from the Engineer, R.D.C. Offices, Castle View, Oswestry. Deposit £2 2s. Tenders by May 19.

Peterborough.—Erection of 10 brick garages on the Dogsthorpe estate, for City Council. Documents from the City Engineer, Town Hall, Peterborough. Deposit £2. Tenders by May 21.

***Prestwich, Lancs.**—External painting of houses, for B.C. Deposit £5 5s. Tenders by May 21.

Ramsey, Hunts.—Alteration, provision of bathrooms, w.c.s, hot water systems, etc., to 156 houses in four contracts, for U.D.C. Documents from the Surveyor, Council Offices, 3 Bury Road, Ramsey. Deposit £1 ls. Tenders by June 4.

Reading, Berks.—Construction of a small swimming pool at Geoffrey Field Primary School, for B.C. Documents from the Borough Architect, Town Hall, Reading. Tenders by May 31.

Royston, Yorks.—External painting of 217 houses in Cross Lane, Calder Avenue, Station Road, Newtown Avenue and Hollycroft Avenue, Royston. Documents from Surveyor, Council Offices, Royston, near Barnsley. Tenders by May 20.

***Salford, Lancs.**—Public toilets at Ordsall Park, Trafford Road, for City Council. Deposit £2 2s. Tenders by June 13.

Salford, Lancs.—Erection of Cromwell Secondary Modern School, phase 2, for City Council. Documents from the office of Cruickshank and Seward, architects, Royal London House, 196 Deansgate, Manchester, available May 20. Deposit £3 3s., cheque payable to the Education Committee. Tenders by June 14.

Settle, Yorks.—Exterior painting of houses as follows, for R.D.C.: Twelve houses, Ingletton, Burmwood View (1-12); 12 houses, Ingletton, Burmwood Crescent (1-7, odd numbers, and 2-16, even numbers). Documents from Engineer and Surveyor, Town Hall, Settle. Tenders by May 23.

Smethwick, Staffs.—Re-glazing and recording of the roof light to the reading room at central library, High Street, for B.C. Written applications to the Borough Engineer and Surveyor, Council House, Smethwick, 40. Deposit £2 2s., cheque payable to Borough Treasurer. Tenders by June 13.

Smethwick, Staffs.—External redecoration at Warley branch library, for B.C. Written applications to the Borough Engineer and Surveyor, Council House, Smethwick, 40. Deposit £2 2s., cheque payable to Borough Treasurer. Tenders by June 13.

***Staffordshire.**—Approved list of contractors, for C.C. Apply by May 21.

Standish-with-Langtree, Lancs.—Following, for U.D.C.: (a) Exterior painting of 116 Council houses on the Avondale housing estate, Standish; (b) re-pointing (and other incidental works) of 57 houses on the Council's Fairhurst Avenue housing estate and 40 houses in Almond Brook Road, Standish (one contract). Documents from the Surveyor and Water Engineer, Ashfield House, Standish. Tenders by May 23.

Sunderland, Dur.—Internal and external painting at various educational premises, for B.C. Documents from the Director of Education, 15 John Street, Sunderland. Tenders by May 20.

Thingoe, Suffolk.—Modernisation of five houses Ixworth Road and six houses Troston Road, Honington, for R.D.C., including the provision of bathroom, domestic hot water supply and drainage. Documents from the Engineer and Surveyor, 1 Northgate Street, Bury St. Edmunds. Tenders by May 23.

Tyrone.—Following, for Co. E.C.: Internal repairs at Crilly P.S.; repairs and painting at Eglis, Killyman, Killylevin, Lisfearry and Pomeroy II Primary Schools; external redecoration at Coalisland and Toberlane Primary Schools; painting at Lisnaglee New Primary School. Applications to the Chief Education Officer, Education Offices, Omagh. Tenders by May 17.

Warwickshire.—Painting work at the following schools, for C.C.: External—Galley Common County School; Camp Hill County School; Red Deepes Special School; Queens County Infants' School; Queens County Junior School; Stockingford County Junior timber constructed classroom block; Stockingford County Junior H.O.R.S.A. classroom block; Alderman Smith High School, Derwent Building; internal—Chilvers Coton County, Junior and Infants; Swinerton prefabricated classroom block, Shepperton playground; St. Joseph's R.C. Junior School; St. Joseph's R.C. High School; Friary County Secondary School; internal and external—Manor Park Technical High School. Documents from the Borough Surveyor, Council House, Nuneaton. Deposit 10s. 6d. Tenders by May 30.

Wellington, Salop.—Following at the cemetery, Linden Avenue, for Burial Joint Committee: (a) The erection of one block of conveniences and staff room with ancillary works; (b) site clearance, construction of drainage roads and paths. Documents from the office of the Engineer and Surveyor, 14 Walker Street, Wellington. Tenders by June 6.

West Riding.—Laying of hardwood strip and block floors for the renewal of floors at Aireborough Grammar School, Yeadon, near Leeds, the work to be carried out during the period July 22, to August 31, 1960, for C.C. Documents from E. J. Ducker, divisional education officer, Education Office, Barcroft, New Road, Yeadon. Tenders by May 17.

West Riding.—Renewal of block and strip flooring at Great Houghton County Primary School, for C.C. Documents from H. Cockell, assistant divisional education officer, St.

John's House, St. John's Square, Wakefield. Tenders by May 20.

West Riding.—Internal redecoration of Knaresborough Grammar School, for C.C. Documents from the Divisional Education Officer, Municipal Buildings, Harrogate. Tenders by May 27.

West Riding.—Reorganisation of the housecraft room and flat at Starbeck County Secondary School, for C.C. Documents from the Divisional Education Officer, Municipal Buildings, Harrogate. Tenders by May 27.

West Riding.—External and part internal redecoration of the County Welfare Establishment, Wharfedale Lawn, Wetherby, for C.C. Applications to the Divisional Architect, Salisbury Buildings, Albert Street, Harrogate, by May 16. Tenders by May 30.

West Riding.—Internal and external painting at the County Residential Nursery, Walton Lane, Sandal, for C.C. Applications to the County Architect, Bishopgarth, Westfield Road, Wakefield, by May 20. Tenders by June 13.

West Suffolk.—Erection at Woolpit County Primary School of sanitary offices (approx. area 800 sq. ft.), drainage and connection to sewer, for C.C. Applications to County Architect, 13 Westgate Street, Bury St. Edmunds, by May 18. Tenders by June 10.

West Suffolk.—Additions and alterations (approx. 12,000 sq. ft. additional area) to the King Edward VI Grammar School, Bury St. Edmunds, for C.C. Applications to County Architect, 13 Westgate Street, Bury St. Edmunds, by May 19. Deposit £2 2s. Tenders by June 24.

Willenhall, Staffs.—Erection of a messroom and store at the Memorial Park, Pinson Road, for U.D.C. Documents from the office of the Engineer and Surveyor, Town Hall, Willenhall. Tenders by May 21.

Wolverhampton.—Erection of changing accommodation and a tea room at Bantock Park, for B.C. Applications to the Borough Engineer, Town Hall, Wolverhampton, by May 20. Deposit £2 2s.

***Workop, Notts.**—External painting 650 dwellings, for B.C. Tenders by June 3.

CLOTHING AND TEXTILES

***Bolton, Lancs.**—Supply of Fire Service uniform, for B.C. Tenders by May 31.

Crawley, Sussex.—Supply of the following protective clothing, for U.D.C.: (a) Bib-and-brace overalls; (b) overall jackets and trousers; (c) p.v.c. clothing; (d) leather boots and shoes. Documents from the Engineer and Surveyor, Goffs Park House, Horsham Road, Crawley. Tenders by May 19.

Derbyshire.—Supply of the following approximate quantities required by October, 1960, for Fire Service: 400 blue shirts each with two collars (T.654); 72 white shirts; 144 white collars (style 11 R.A.F.); 500 neckties, black; 1,500 pairs black socks. Documents from the Chief Fire Officer, P.O. Box 29, North Lees, Duffield Road, Derby. Tenders by May 18.

***Lepton, Essex.**—Supply of uniforms, for B.C. Tenders by June 27.

Manchester.—Supply of uniforms, shirts, footwear, etc., to the fire brigade, for City Council. Documents from Chief Officer, City of Manchester Fire Brigade, Fairfield Street, Manchester, 1. Tenders by May 18.

Southport, Lancs.—Supply of police uniform clothing, including waterproof clothing, caps and helmets, gloves, shirts, collars and ties, for B.C. Documents from the Chief Constable, Police Headquarters, Southport. Tenders by June 2.

DEMOLITION

***Bath.**—Kingsmead redevelopment, for City Council. Deposit £1 ls. Tenders by May 25.

Birkenhead, Ches.—Demolition of Thingwall Hall including The Lodge and adjoining buildings, for B.C. The premises are situated at Thingwall Corner—Barnston Road junction with Pensby Road. Documents from Borough Architect's Department, 3 Conway Street, Birkenhead. Tenders by May 24.

Clare, Suffolk.—Demolition and clearance of Barracks Row, Withersfield, for R.D.C. Documents from the Engineer and Surveyor, Stonehall, Clare. Tenders by June 3.

Lanarkshire.—Demolition of the schoolhouse at Bellshill Primary School, for C.C. Written applications to D. G. Bannerman, county architect, 34 Albert Street, Motherwell, by May 14.

Magor and St. Mellons, Mon.—Immediate demolition to slab level of brick and hollow block huts, brick towers, stack, Nissen huts, reinforced concrete columns and trusses at Underwood, Llanmartin, for R.D.C. Some of the huts are partially demolished, the whole comprising: 38 huts, size 60ft. x 20ft.; eight huts, size 30ft. x 20ft.; four towers, and four Nissen huts. All materials to be removed from site to a tip to be provided by the contractors. The huts and structures may be

inspected at any time by arrangement with the Council's Clerk of Works at Underwood, Llanmartin. Tenders, in plain sealed envelopes endorsed "Underwood, Llanmartin," to H. E. M. Keene, clerk of the Council, Council Offices, Baneswell, Newport, Mon., by noon, May 18.

Newbury, Berks.—Demolition of the following properties, for R.D.C.: (a) 12-19 Green Lane, Thatcham; (b) 44-54, Chapel Street, Thatcham. Documents from the Surveyor, Newbury R.D.C., Phoenix House, Bartholomew Street, Newbury. Tenders by May 31.

Romford, Essex.—Demolition of 26 Mawney Road, together with outbuildings at the rear, for B.C. Documents from the Borough Engineer, Town Hall, Romford. Deposit £2 2s. cheque. Tenders by May 25.

Sheffield, Yorks.—Demolition of factory premises, situated in Rockingham Street and Trafalgar Street, for City Council. The area of the site is approx. 1½ acres. Documents from the Estate Surveyor, Town Hall, Sheffield, 1. Deposit £2 2s., cheques payable to City Council. Tenders by May 18.

Sheffield, Yorks.—Demolition of the former Grapes Hotel, Moorhead, for City Council. Documents from the Estates Surveyor, Town Hall, Sheffield, 1. Deposit £2 2s., cheques payable to City Council. Tenders by May 18.

ELECTRICAL

East Riding.—Installation of electrical services at the extension to Woodmansey School, for C.C. Documents from County Architect, County Hall, Beverley. Tenders by May 20.

Hull.—Electrical installation to 138 dwellings, Nornabell Street, for City Council. Documents from Andrew Rankine, city architect, Guildhall, Hull. Deposit £2, payable to City Treasurer. Tenders by May 18.

Liverpool.—Supply and erection of passenger lift at Westminster House, for City Council. Documents from City Engineer and Surveyor, Municipal Buildings, Liverpool, 2. Tenders by June 7.

Londonderry.—Following, at Irish Society Primary School extension, for C.C.: Electrical installation and plumbing installation, supply and fix metal windows. Documents from the County Education Architect at Whitehall Chambers, New Row, Coleraine. Deposit £1 each contract. Tenders by May 23.

Luton, Beds.—Electrical work in connection with new heating installation, Old Bedford Road School, for B.C. Documents from Borough Architect, Town Hall, Luton. Tenders by June 1.

Northern Ireland.—Electrical and plumbing installations in four shops at Ravenswood Park, Braniel, 2 (section 2), for Housing Trust. Documents from the offices of the Trust, 12 Hope Street, Belfast, 12. Tenders by May 19.

Southend-on-Sea, Essex.—Electrical installation at Hinguar Primary School, for B.C. Applications to the Borough Architect, 30 Alexandra Street, Southend-on-Sea. Tenders by May 27.

Southend-on-Sea, Essex.—Electrical installation at Fairfax High School for Boys, for B.C. Applications to the Borough Architect, 30 Alexandra Street, Southend-on-Sea. Tenders by May 23.

FENCING

Norfolk.—Supply and delivery of the following, for C.C.: 7,500 lin. yd. run of timber fencing consisting of split chestnut posts morticed to take four round larch rails to site at Scottow. Documents from the County Surveyor, County Offices, Thorpe Road, Norwich, Nor 47A. Tenders by May 18.

Romford, Essex.—Fencing in parks, for B.C. Deposit £2 2s. Tenders by June 7.

Southgate, Middx.—Concrete palisade fencing at Tottenham sports ground and boundary playing fields, approximately 470 lin. yd., for B.C. Applications in writing, to the Borough Engineer and Surveyor, Town Hall, Palmers Green, N.13. Tenders by May 23.

Southgate, Middx.—Provision and erection of approximately 932 lin. yd. of chain link fencing of varying heights to tennis courts surrounds and various sports grounds, for B.C. Applications in writing, to the Borough Engineer and Surveyor, Town Hall, Palmers Green, N.13. Tenders by May 23.

GAS AND WATER SUPPLY

Blyth, Suffolk.—Benhall water supply scheme for Sizewell Atomic Power Station, contract C, for R.D.C. Deposit £10. Tenders by May 30.

Brighton, Sussex.—Supply and delivery of spun-iron pipes, etc., for B.C. Tenders by May 30.

Brighton, Sussex.—Mainlaying. Sumping pumping station to Sumping-by-pass, for B.C. Deposit £3 3s. Tenders by May 30.

Chesterton, Cambs.—Willingham, Over Road water main extension, for R.D.C., including

the laying of approximately 1,500 lin. yd. 4in. asbestos-cement pipes, valves, recording apparatus and ancillary works. Documents from the Engineer and Surveyor, County Hall, Hobson Street, Cambridge. Deposit £2 2s. Tenders by June 2.

Dungannon, Tyrone.—Supplying and laying of 4in., 3in. and 2in. dia. spun-iron and asbestos-cement water mains to a total approx. length of 15 miles, contract 13, for R.D.C. Documents from the offices of the Dungannon Rural District Council, Dungannon. Deposit £3 3s. Tenders by May 26.

Faringdon, Berks.—Water supply extension, Woolstone, for R.D.C. Apply by May 21. Deposit £2 2s.

Highworth, Wilts.—Laying approximately 1½ miles of 6in. asbestos-cement water mains with ancillary works, for R.D.C. Documents from F. Davenport, engineer and surveyor, Council Offices, Bath Road, Swindon. Deposit £2 2s. Tenders by May 17.

Kilkenny, Eire.—Construction of temporary water supply and sewerage schemes at Bennettsbridge, for C.C. In the temporary water supply scheme the works include the laying of approximately: 848 lin. yd. in 3in. diameter cast-iron or p.v.c. class C pipes; 383 lin. yd. in 4in. diameter cast-iron or p.v.c. class C pipes; 410 lin. yd. in 5in. diameter cast-iron or p.v.c. class C pipes; together with all valves, hydrants, fountains and all necessary fittings, and the construction of a temporary pump-house. In the sewerage scheme the works include the laying of approximately: 702 lin. yd. of 6in. sewer with concrete pipe; 802 lin. yd. of 9in. sewer with concrete pipe; 507 lin. yd. of 12in. sewer with concrete pipe; together with all manholes, storm overflows, ventilating columns and other ancillary works, and the construction of a disposal works. Documents from Ed. Ralph, consulting engineer, 1 Montpelier Terrace, Galway. Deposit £21. Tenders by June 11.

Norham and Islandshires, Northumb.—Cornhill and District water supply, for R.D.C., including the laying of approx. five miles of 6in. to 3in. dia. spun-iron pipes with ancillary works across a rural area in North Northumberland. Documents from Waterhouse and Rounthwaite, consulting engineers, 165 Westmorland Road, Newcastle upon Tyne, 4. Deposit £5 5s. Plans also seen at the Council Offices, 52 Ravensdowne, Berwick-upon-Tweed. Tenders by May 26.

Northampton.—Following, for Mid-Northamptonshire Water Board: Comprising laying of approx. 1,465 lin. yd. of 8in. dia. spun-iron pipes and specials, 42yd. of 8in. dia. steel pipes and specials, concrete foundations for steel pipe bridge and ancillary works between Rush Mills and Great Houghton Turn, Northampton, contract 442. Documents from Leonard H. Brown, chartered civil engineer, Cliftonville, Northampton. Deposit £2 2s. Tenders by June 1.

North Shields, Northumb.—Northern trunk main, contract 6, for the Coquet Water Board. Deposit £5 5s. Tenders by June 17.

Ross and Cromarty.—Laying and jointing of approximately 9½ miles of 4in. to 1½in. diameter asbestos-cement water mains, with construction of intakes and two mass concrete storage reservoirs at Inverdale in the parish of Gairloch, for C.C. Documents from the County Water Engineer, Burn Place Dingwall. Arrangements have been made to show intending offerers over the site of the works on May 16. Contractors intending to take advantage of these arrangements should meet at Inverdale Post Office at 11.30 a.m. Tenders by May 30.

Sligo, Eire.—Supply and erection in the proposed new pump-house at Lower Rosses, for C.C., of a fully equipped electrically driven pumping plant, capable of pumping 128 gallons per minute, against a total head of approx. 142ft. Documents from Thomas J. O'Connor, consulting engineer, Commercial Buildings, Dame Street, Dublin. Deposit £10 10s. Tenders by June 7.

Sligo, Eire.—Construction of a water supply at Lower Rosses, for C.C. The work comprises the following: Reinforced concrete service reservoir of 65,000-gallon capacity; pump-house and pumpsump; laying of the following mains, complete with all fittings and all ancillary works—408 lin. yd. of 6in. dia. main, 970 lin. yd. of 5in. dia. main, and 4,817 lin. yd. of 4in. dia. main. Documents from Thomas J. O'Connor, consulting engineer, Commercial Buildings, Dame Street, Dublin. Deposit £20. Tenders by June 7.

Staffordshire.—Supply and delivery of 18in., 12in., 9in., 6in. and 4in. dia. cast-iron pipes and specials for Shootershills reservoir, contract 56, for Potteries Water Board. Documents from C. V. Brown, engineer & manager and clerk to the board, Engineer and Manager's Office, Albion Street, Hanley, Stoke-on-Trent. Tenders by May 20.

Taunton, Som.—Water supply at Kingston St. Mary, for B.C. Deposit £2 2s. Tenders by June 1.

West Cheshire.—Construction of a Flotsam and Scour channel through the existing causeway connecting the pumping station with the Dee Bridge at Chester. The work to be done comprises excavation, reinforced concrete, fixing of ironwork, etc., contract Q, for Water Board. Documents from G. H. Hill and Sons (Manchester), civil engineers, 51 Mosley Street, Manchester, 2. Deposit £5 5s. cheque. Plans also seen at the Board's Offices, 69 Allport Road, Bromborough, Wirral, Cheshire. Tenders by June 7.

HARBOURS, PIERS AND SEA DEFENCE WORKS

Cowes, I. of W.—Demolition and complete removal of Victoria Pier, Cowes, piles to be drawn or cut off at least 1ft. below sea bed level and the site completely cleared, for U.D.C. All salvage materials will be the property of the contractors, for which allowance should be made. Documents from the Engineer and Surveyor, Northwood House, Cowes. Tenders by June 7.

Havant and Waterloo, Hants.—Sea defences, Eastoke Corner, Hayling Island. Tenders by June 10.

HEATING AND VENTILATING

Essex.—Following, for C.C.: (1) Poplars Hostel for Elderly Persons, Walton-on-Naze—conversion of existing heating apparatus to oil firing, estimated cost £2,600, the work to be completed by mid-September, 1960; (2) Westwood Park Hostel for Elderly Persons, Little Horkeley—provision of new oil-fired central heating apparatus to whole building, estimated cost £8,500. Separate applications to H. Conolly, county architect, County Hall, Chelmsford, by May 14.

Hove, Sussex.—Dismantling of existing laundry boiler and installation of new boiler, for B.C. Tenders by May 30.

Lancashire.—Following works by nominated sub-contractors, for C.C.: (1) Heating installation, (2) secondary hot water service at Ulverston Hostel for Aged Persons; (1) heating installation, (2) secondary hot water service at Chorley Hostel for Aged Persons; (1) heating installation, (2) secondary hot water service, (3) electrical installation at Maghull Hostel for Aged Persons. Applications to the County Architect, P.O. Box 26, County Hall, Preston, by May 16.

Liverpool.—Supply and fixing of the following, for City Council: (a) A new heating boiler at Lister Drive County Primary School, Liverpool, 13; (b) two heating boilers at Highfield Secondary Modern School, Heliers Road, Liverpool, 13. Documents from City Engineer and Surveyor, Municipal Buildings, Liverpool, 2. Tenders by June 9.

Limerick, Eire.—Mechanical and electrical installations in the new Diocesan College, Limerick. Documents from Chevalier Patrick J. Sheehan, architect, 47 O'Connell Street, Limerick. Deposit £25. Tenders by June 10.

St. Helens, Lancs.—Replacement of heating boilers at Allanson Street Primary School and Parr Mount Secondary School, for Education Committee. Documents from the Education Surveyor, Education Office, Cotham Street, St. Helens. Tenders by May 30.

Southport, Lancs.—Installation of hot and cold water services at the new shower and changing block at the King George V School, Scarisbrick New Road, for B.C. Documents from the Borough Architect and Town Planning Officer, 99/105 Lord Street, Southport. Deposit £1 1s. Tenders by May 26.

HOUSING SCHEMES

Abingdon, Berks.—Eighteen traditional flats at Appleford Drive, together with all site works, for B.C. Applications to Borough Engineer, the Abbey House, Abingdon, by May 14. Tenders by June 24.

Batley, Yorks.—Following, for B.C.: Twelve houses and flats at the Middlegate (Birstall) redevelopment area; 14 flats and bungalows on the Staincliffe housing estate. Documents from Borough Engineer, West House, Hanover Street, Batley. Tenders by May 21.

Bristol.—Erection of three-storey block of eight flats, Bell Hill Road, St. George, in traditional construction, for City Council. Applications to City Architect, Council House, College Green, Bristol, 1, by May 18.

Buckfastleigh, Devon.—Six one-bedroom bungalows of traditional construction at the housing estate at Higher Mill Lane, Buckfast, for U.D.C. Documents from Grant and Green, architects, 10 High Street, Totnes. Deposit £2 2s., payable to U.D.C. Tenders by May 23.

Caistor, Lincs.—Sixteen dwellings, for R.D.C. Deposit £3 3s. Tenders by June 9.

Clutton, Som.—Ten traditional type single-bedroom bungalows, together with the construction of sewers, roadworks and site clearance, for R.D.C. Documents from Thomas and Morgan and Partners, architects, 23 Gelli-

wastad Road, Pontypridd, Glam. Deposit £3 3s. Plans seen at the Council Offices, Temple Cloud, Bristol. Tenders by May 25.

Cranbrook, Kent.—Erection of a block of 10 and a block of four two-storey flats and six lock-up garages, together with drainage, services, extension of estate road and site-works, at Red Oak housing estate, Horns Road, Hawkhurst, for R.D.C. Documents from K. Barnes, architect, Council Offices, Hill House, Cranbrook. Deposit £2 2s. (cheque). Tenders by May 31.

Fifeshire.—Following, for C.C.: 12 traditional houses (six cottages, six 3-storey flats) at Thornton 13th development; 21 traditional houses at Coalton of Balgonie 8th development. Applications, specifying site, to the County Clerk, Cupar, Fife, by May 14.

Fifeshire.—Seven traditional houses at Milton of Balgonie fourth development, for C.C. Applications to the County Clerk, Cupar, Fife, by May 18.

Fifeshire.—Five traditional houses at Gateside second development, for C.C. Applications to the County Clerk, Cupar, Fife, by May 14.

Gillingham, Kent.—Twenty houses and 12 garages at Stratford estate, stage III, for B.C. Deposit £5 5s. Tenders by June 3.

Gillingham, Kent.—Sixty-two flats at Twydall Hawthorne estate, for B.C. Deposit £5 5s. Tenders by June 17.

Knighton, Radnors.—Ten three-bedroom houses and nine lock-up garages and ancillary works at Fronhir, for U.D.C. Documents from S. N. Shrimpton and Son, architects, 54 Broad Street, Ludlow. Deposit £10 10s., cheque payable to U.D.C. Tenders by June 1.

Liverpool.—Erection of houses, for B.C. Deposit £2 2s. Tenders by May 30.

Middlewich, Ches.—Six bungalows on Chadwick Fields Orchard, for U.D.C. Documents from D. A. Stubbs, surveyor, Victoria Building, Middlewich. Deposit £3 3s. Tenders by June 10.

Pontardawe, Glam.—Thirty dwellings at Cwmdu, Cilmaengwyn, for R.D.C., comprising: Seven three-bedroom houses, 15 two-bedroom houses and eight one-bedroom flats, together with roads and sewers. Documents from D. S. F. Williams, engineer and surveyor, Council Offices, Pontardawe. Deposit £5, cheque payable to R.D.C. Tenders by May 26.

Prescot, Lancs.—Erection of 130 units of accommodation, comprising 62 houses and 68 maisonnettes, on the Elm House/Derby Street site, for U.D.C. Documents from Gornall, Kelly and Partners, architects, 155 The Albany, Old Hall Street, Liverpool, 3. Deposit £2 2s. Tenders by June 6.

South Kesteven, Lincs.—Erection of permanent traditional type houses as follows, for R.D.C.: Pt. O.S. 103a, The Council's Depot, Stamford Road, Lound, two houses and two garages. Documents from the Council Offices, 41 North Street, Bourne, Lincs. Deposit £2 2s. Tenders by June 1.

Southwell, Notts.—Two pairs of bungalows, Church Road, Carlton-on-Trent, for R.D.C. Documents from M. England, architect and surveyor, 7 Westgate, Southwell, Notts. Deposit £2 2s., cheque payable to R.D.C. Tenders by May 30.

Wakefield, Yorks.—One pair of bungalows, type B/2, at Grove Crescent, Walton, for R.D.C. Documents from the office of the Engineer and Surveyor, Council Offices, 18 St. John's North, Wakefield. Tenders by May 21.

West Kesteven, Lincs.—Bungalows, for R.D.C. Deposit £2 2s. Tenders by May 27.

Worksop, Notts.—Fourteen houses at Kilton Hill estate, for B.C. Deposit £3 3s. Tenders by June 3.

Worksop, Notts.—Twenty-two traditional type houses and roadworks on five adjacent infilling sites in Dudley Road, Long Lane and Beckett Avenue, at Carlton-in-Lindrick, for R.D.C. Documents from the office of B. D. Thompson, architect, 102 Bridge Street, Worksop. Deposit £3 3s., cheque payable to R.D.C. Tenders by May 25.

MATERIALS AND SUPPLIES

Blackburn, Lancs.—Supply of the items specified below for a new secondary school canteen, for B.C.: (1) Heavy canteen equipment; (2) light canteen equipment; (3) dining-room furniture. Documents from the Chief Education Officer, Education Offices, Library Street, Blackburn. Tenders by May 21.

Blaenavon, Mon.—Supply of dustbins, for U.D.C. Tenders by May 24.

Durham.—Supply of engineering equipment, for C.C. Tenders by May 27.

East Riding.—Supply and delivery to Caves By-pass, South Cave, of 220 cast-iron gully covers and frames to suit 45 deg. battered kerb, for C.C. Documents from the County Surveyor, County Hall, Beverley. Tenders by May 18.

***Felling, Dur.**—Supply of building materials, for U.D.C. Tenders by May 20.

Hornsey, Middx.—Supply of gas oil, fuel oil and paraffin from firms obtaining supplies from refineries in the United Kingdom for the year commencing July 1, 1960, for B.C. Documents from the Borough Engineer and Surveyor, Town Hall, The Broadway, Crouch End, N.8.

Manchester.—Supply of the following, for City Council: Paraffin oil (burning and vaporising); motor spirit (commercial and premium grades). Documents from the General Manager, Corporation Transport Department, 55 Piccadilly, Manchester, 1. Tenders by May 20.

Middlesbrough, Yorks.—Following, for the period July 1, 1960, to June 30, 1961, for B.C.: (1) Coated macadam, fine cold asphalt and special carpets; (2) hot process rolled asphalt—supplying and laying (B.S.594); (3) cement (bagged and bulk); (4) broken stone and chippings (igneous); (5) sand and gravel; (6) broken slag and penning; (7) concrete kerbs; flags, quadrants, etc.; (8) concrete fencing and clothes posts; (9) cast-iron man-hole covers and gully grates; (10) salt-glazed pipes; (11) lead pipe and sheet solder; (12) plaster Carlite plasterboard, Paramount cellular partition, building and plastering limes; (13) nails, screws, nuts and bolts; (14) street lighting gas mantles; (15) cast-iron rain-water and soil goods; (16) slates; (17) qualls, firebricks and fire cement; (18) domestic m.s. back boilers and firebottoms; (19) chimney pots and glazed tiles; (20) copper tube; (21) v.e. metal draining boards; (22) sanitary ware—lavatory basins, sinks, and w.c. pedestals; (23) w.c. seats—plastic and timber; (24) paint putty and distemper; (25) decorators' brushes; (26) glass—sheet; (27) electric lamps; (28) galvanised hollowware—dustbins, gas boilers and buckets. Documents from the Borough Engineer, Municipal Buildings, Middlesbrough. Tenders by May 27.

Portsmouth.—Supply of any of the under-mentioned (no other) brands of gloss paint and undercoat during the period of two years commencing Sept. 1, 1960, for City Council: Atlas super finish; Brolac gloss enamel; Dockerlux gloss paint; Duradio enamel paint; Gaymel enamel; Harlux enamel; Ipsyn synthetic enamel; Luminol enamel paint; Neofex enamel; Parsolac enamel; Roclac high gloss paint; superlative gloss paint; Valspar anti-seawater enamel; Bergermaster gloss finish; Combinol gloss finish; Dulux gloss finish; Fochow durable gloss enamel; Hadrian gloss paint; He-o-lin glossy finishing paint; Leylac enamel; Manderlac enamel; Nine Elms hard gloss; Pompeian enamel paint; Sunglynt enamel; Talbot synthetic enamel. Documents from the Supplies Officer, Central Depot, Eastern Road, Portsmouth. Tenders by May 31.

Salford, Lancs.—Supply and delivery of the following, for City Council: 3,000 2½ cu. ft. capacity galvanised ashbins and covers of not less than the British Standards specification 792/1947, for the period ending Sept. 30, 1960. Documents from the Director of Public Cleansing, Cleansing Department, Wilburn Street, Salford, 5. Tenders by May 21.

Sunderland, Dur.—Supply of the following, for B.C.: (a) Hardware for 933 dwellings; and (b) mild steel gates for 697 dwellings. Documents from Borough Architect, Grange House, Stockton Road, Sunderland. Tenders by May 18.

Willenhall, Staffs.—Supply and delivery of the following items during the period July 1, 1960, to June 30, 1961, for U.D.C.: (1) Portland cement; (2) concrete flags; (3) concrete kerb and channel; (4) grit; (5) house coal and boiler fuel; (6) road salt; (7) tarred and bituminous macadam; (8) dustbins. Documents from the Engineer and Surveyor, Town Hall, Willenhall (a stamped addressed envelope of suitable size must be forwarded with applications for tender documents). Tenders by May 20.

PLANT AND MECHANICAL TRANSPORT

Acton, Middx.—Following, for B.C.: (a) Supply and erection of fencing and railings; (b) highway improvement and paving works; (c) supply of trailer-type road gritter; (d) supply of two dual-tip refuse collecting vehicles; (e) mobile tower unit; (f) supply of triple unit gang grass mower. Documents from the Borough Engineer, Town Hall, Acton, W.3. Tenders by May 31.

Bletchley, Bucks.—Supply of a tractor, for U.D.C. Tenders by June 10.

***Dearne, Yorks.**—Supply of tractor, for U.D.C. Tenders by May 21.

***Evesham, Worcs.**—Supply of refuse vehicle, for B.C. Deposit £2 2s. Tenders by May 30.

North Down.—Supply of the following, for R.D.C.: (a) Cesspool emptier; (b) tractor-mounted excavator. Documents from the

Council Offices, 2 Church Street, Newtownards. Tenders by May 17.

***Romford, Essex.**—Supply of plant, for B.C. Tenders by May 25.

Seaham, Dur.—Supply of the following vehicles, for U.D.C.: Two Karrier Gamecock diesel refuse collectors; one Commer Superpoise 5-ton tipper. Documents from the Engineer and Surveyor, Cliff House, Seaham. Tenders by May 23.

Tynemouth.—Supply of the following, for B.C.: (1) 2½-ton diesel road roller; (2) two-tool portable compressor. Documents from the Borough Surveyor, 16 Northumberland Square, North Shields. Tenders by May 27.

West Riding.—Supply of the under-mentioned items of new highway plant, for C.C.: Tractor-type grass verge mower, one; percussive air drills, two; 3in. centrifugal pumps, two; plastic white line heating tanks, four; 3-ton diesel lorries, six; 5-ton diesel lorries, 17; industrial tractors with loading shovel, 20; four; attachment gritters, seven; trailer gritters, 30; 5½ cu. ft. concrete mixers, four; loading shovel/excavators, four; lorry mounted weed sprayer, one; class 2 crawler tractor, one; 22in. snowploughs, 12; 33in. snowploughs, 12; transportable greasing equipment, one; steam cleaner, one; milling machine, one. Documents from the Chief Mechanical Engineer, West Riding County Council, Highways and Bridges Department, Central Repair Depot, Lofthouse Park, near Wakefield. Requests for tender documents should set out the items of plant for which the contractor is desirous of submitting tenders. Tenders by May 19.

***Wimbledon, Surrey.**—Supply three refuse vehicles, for B.C.

PLAYING FIELDS, PARKS, ETC.

***Bury, Lancs.**—Playing field works at Seedfield Secondary Modern School, for B.C. Tenders by May 21.

Muckamore, Antrim.—Supply of playground equipment to Muckamore Abbey. Documents from the Secretary, Eastern Special Care Management Committee, Muckamore Abbey, Muckamore. Tenders by May 16.

Portsmouth.—Layout of playing fields and horticultural works at Court Lane Modern School, Grove Road, Drayton, for City Council. Documents from the Director of Parks, Alexandra Park, Portsmouth. Tenders by June 1.

***Southgate.**—Resurfacing of tennis courts at Hedge Lane sports ground, for B.C. Tenders by May 23.

Swansea.—Layout of grounds at Blaenymaes County Primary School, for B.C., including the excavation, filling, levelling, tilthing and seeding, with sub-soil drainage and other contingent works over an area of approx. 21,000 sq. yd. Documents from J. Owen Parry and Lewis, consulting civil engineers, Arcade Chambers, College Street, Ammanford. Deposit £5 5s. Tenders by May 30.

ROADS, BRIDGES AND SITE WORKS

Antrim.—Following works, for C.C.: Proposal 851, District road 81, Ballycraig Road, Larne—the construction of approximately 1,000 lin. yd. of new 18ft. wide carriageway from Ballycraig cross roads to the Larne borough boundary; proposal 1218, route A.52, Crumlin Road—the construction of 1½ miles of new 24ft. wide carriageway in the vicinity of Clady Corner, reinforced concrete bridge culvert, and ancillary works; proposal 1219, route B.17, Coleraine-Bushmills Road—the construction of one mile of new 24ft. wide carriageway on route B.17 at Revallagh cross roads, and the realignment of route B.62 at its junction with B.17. Documents from the County Surveyor's Office, County Courthouse, Crumlin Road, Belfast. Deposit £5 5s. each. Tenders by May 20.

Barnsley, Yorks.—Making-up of Briggs Street, comprising 1,200 sq. yd. of carriageway, 650 sq. yd. of footway and ancillary works, for B.C. Documents from the Borough Engineer and Surveyor, Town Hall, Barnsley. Tenders by May 23.

***Bedford.**—Construction of roads, surface water and foul sewer works, for B.C. Deposit £5 5s. Tenders by June 1.

***Birkenhead, Ches.**—Road works, for B.C. Deposit £2 2s. Tenders by May 23.

Burton-upon-Trent, Staffs.—High Street-Lichfield Street reconstruction, for B.C., comprising approximately 210yd. of High Street and 150yd. of Lichfield Street, including kerbing, channelling, paving, removal of tram rails, wood blocks and excavation of new foundations, the provision of new foundations, resurfacing, and ancillary works. Documents from the Borough Surveyor, Town Hall, Burton-upon-Trent. Tenders by May 5.

Cannock, Staffs.—Spraying on carriageways of an approximate quantity of 20,000 gallons of tar plus 10 per cent. bitumen during July, for U.D.C. Documents from E. Lomax, engi-

neer and surveyor, Council House, Cannock. Deposit £2 2s. Tenders by May 20.

Cannock, Staffs.—Site clearance work, Holly Lane Camp site, Great Wyrley, for R.D.C., comprising 2,700 cu. yd. demolition and disposal of brick and reinforced concrete structures; 16,000 sq. yd. breaking-up and disposal of concrete roads, paths and hut bases; 2,500 cu. yd. bulk excavation. Documents from the offices of the Engineer and Surveyor, Council Offices, Penkridge. Deposit £2 2s. Tenders by June 4.

Cardiganshire.—Resurfacing and laying new tarmacadam to the following school playgrounds, for C.C.: Aberayron district—Cribyn C.P. School; Felinfaich C.P. School. Aberystwyth district—Llanfarian C.P. School; Llan-y-creuddyn C.P. School (house); Llan-gwryfion C.P. School; Mynach C.P. School; Penparcau C.P. School; Trefeurig C.P. School; Dinas S.M. School. Cardigan district—Beulah C.P. School (house); Cardigan C.P. School (mixed); Cardigan Infants' School; Lampeter district—Betws Bledrws V.P. School. Llanyssul district—Aberbanc V.P. School; Coedybryn C.P. School and house; Glynarthren C.P. School; Tregroes C.P. School. Tregaron district—Gartheli C.P. School; Llanddewi-brefi C.P. School; Llan-geitho C.P. School; Pontrhydfendigaid School; Swyddffynnon C.P. School; Ysbyty Ystwyth C.P. School. Documents from the County Architect, County Hall, Aberayron. Tenders by May 21.

Cardiganshire.—Construction of new bridge and roadworks at Pontyberem, for C.C. Deposit £2. Tenders by May 25.

Cheadle and Gatley, Ches.—Surface dressing of approximately 66,000 super. yd. of highways, for U.D.C. Documents from Duncan S. Graham, engineer and surveyor, Town Hall, Abney, Cheadle. Tenders by May 21.

Coventry.—Construction of drainage, reinforced concrete carriageways, cycle tracks, footpaths and amenity works to 240ft. diameter roundabout and approach roads, inner ring road, stage 11, for City Council. Documents from City Engineer, Council House, Coventry. Deposit £5. Tenders by May 23.

Derbyshire.—Private street works, Breaston, for C.C. Deposit £2. Tenders by May 31.

Dewsbury, Yorks.—Private street works, for B.C. Tenders by June 9.

Doncaster, Yorks.—Bridge to proposed wholesale market, contract 54, for B.C., including the construction of the 24in. diameter bored piles, the reinforced concrete piers and the approach roads (400 lin. ft.). Documents from the offices of the Borough Surveyor, 2 Priory Place, Doncaster. Deposit £3 3s. Tenders by June 11.

East Lothian.—Widening and surfacing Yellowcraig Road, Dirleton, at section of road north of junction with road to Dirleton New Mains and formation of four passing places on above section and two on section to south, for C.C. Documents from County Clerk, County Buildings, Haddington. Tenders by May 24.

East Riding.—Liverpool-Leeds-Hull trunk road, A.63, improvement between Ferryby Bypass and Heads Lane, Hessle, for C.C. comprising construction of approximately 1,000 yd. of single carriageway and the conversion of approximately 600 yd. of existing road to dual carriageway. The works include fencing, drainage, kerbing, carriageway construction and surfacing. Documents from the County Surveyor, County Hall, Beverley. Deposit £2 (cheques payable to East Riding C.C.). Tenders by May 23.

Edinburgh.—Manufacture, supply and laying of hot rolled asphalt for the undernoted contract, for City Council: Asphalt paving works, phase 2, 1960-61. Documents from City Engineer, 329 High Street, Edinburgh. Tenders by May 19.

Erith, Kent.—Making-up Lullingstone Road and Albany Road, for B.C. Deposit £2 2s. Tenders by May 20.

Esher, Surrey.—Road works, contracts 303 and 304, for U.D.C. Deposit £1 1s. each. Tenders by June 3.

Eston, Yorks.—Fine cold asphalt surfacing, for U.D.C. Deposit £2. Tenders by June 7.

Hampshire.—Construction of second carriageway on trunk road A.30, for C.C. Apply by May 16.

Harrogate, Yorks.—Underground petroleum installation at Claro Road depot, for B.C. Tenders by May 23.

Ipswich, Suffolk.—Supply and laying of approximately 5,800 sq. yd. of 1½in. bitumen macadam surfacing, together with a quantity of balancing material, for B.C. Documents from the Borough Engineer and Surveyor, 19 Tower Street, Ipswich. Tenders by May 23.

Kent.—Surface water drainage, completion of carriageways, footpaths and incidental works at the following private streets, for C.C.: Spring Head Road, Kemsing (length 157 yd.); Albert Road, Capel-le-Ferne (length 125 yd.); Avery Way, Allhallows (length

1,300 yd.). Documents from the County Surveyor, County Hall, Maidstone. Deposit £2 each. Tenders by May 27.

Kingston-upon-Thames, Surrey.—Construction of new car parking areas, for B.C. Deposit £2 2s. Tenders by May 30.

Lancashire.—Construction of footbridge, for C.C. Deposit £2. Tenders by June 3.

Leicester.—Following, for City Council: (a) Surface dressing approx. 130,000 super. yd.; (b) carpet coats to sett-paved streets, approx. 13,500 super. yd.; (c) carpet coats to heated and planed streets, approx. 35,000 super. yd.; (d) cleaning and sealing joints to concrete roads, approx. 20,000 lin. yd. Documents from John L. Beckett, city surveyor, Town Hall, Leicester. Deposit £1 1s. Tenders by May 20.

Leyton, Essex.—Construction of bus lay-bys, Crownfield Road and High Road, London, E.11, and widening of High Road, London, E.11, for B.C., including the provision of two concrete bus lay-bys, kerbing works, paving works and surfacing works. Documents from Borough Engineer and Surveyor, Town Hall, Leyton, London, E.10. Deposit £2 2s. Tenders by May 23.

Liverpool.—Following, for City Council: (a) Removal of railings and resurfacing playground with bituminous macadam at St. Cuthbert's R.C. School, Aviemore Road, Liverpool, 13; (b) resurfacing of playground with bituminous macadam at Finch Hall, Colwell Road, County Primary School, Liverpool, 14. Documents from City Engineer and Surveyor, Municipal Buildings, Liverpool, 2. Tenders by June 9.

Londonderry.—Supply and laying of the following, for City Council: (a) Hot rolled and mastic asphalt; (b) approximately 1,920 sq. yd. Bitmac road surfacing. Documents from the City Engineer and Surveyor, 5 Guildhall Street, Londonderry. Tenders by May 21.

Margate, Kent.—Private street works, for B.C. Tenders by May 28.

Middleton, Lancs.—Making-up of two sections of Mirfield Drive involving the construction of 390 sq. yd. of carriageway, 320 sq. yd. of footways, and ancillary works, for B.C. Documents from the Borough Engineer and Surveyor, Town Hall, Middleton. Deposit £2 2s. Tenders by May 21.

Mitcham, Surrey.—Improvement at junction of Tamworth Lane and Grove Road, for B.C. Tenders by June 2.

Newtownabbey, Antrim.—Road maintenance works as follows, for U.D.C.: (1a) 3,500 cu. yd. Bitmac carpeting; (1b) 90,000 sq. yd. surface dressing; (2) 2,749 sq. yd. asphalt carpeting. Documents from the Town Surveyor, Town Hall, Whitehouse, Newtownabbey. Tenders by May 23.

Normanton, Yorks.—Footpath works, surface water drainage works and the regulating and resurfacing of Altofts Road, for U.D.C. The area of the carriageway is approximately 3,320 sq. yd. Documents from the office of the Surveyor, Town Hall, Normanton. Tenders by May 30.

Oxford.—Construction of roads and sewers at Cowley centre development, for City Council. Tenders by June 2.

Reading, Berks.—Construction of roads at the Laurels housing estate, site 49, for B.C. Deposit £2 2s. Tenders by June 7.

Reading, Berks.—Private street works, for B.C. Deposit £2 2s. Tenders by June 7.

Richmond, Yorks.—Construction of approximately 258 yd. of roads, together with footpaths and the laying of approximately 143 yd. of 3in. water main at the housing site at Brompton-on-Swale, for R.D.C. Documents from the Engineer and Surveyor, Swale House, Richmond, Yorks. Deposit £2. Tenders by May 18.

Rotherham, Yorks.—Private street works, for B.C. Deposit £2 2s. Tenders by June 20.

Salford, Lancs.—Construction of a new playground at the North Salford S.M. Boys' School, Leicester Road, for City Council. Documents from the City Engineer and Surveyor's Department, Town Hall, Salford, 3. Tenders by May 24.

Seaton Valley, Northumb.—Following, for U.D.C.: (1) Supply of kerbs and flags; (2) flagging footpaths at (a) Cramlington (b) Seaton Delaval; (3) surface dressing 24,000 sq. yd.; (4) asphaltting 1,900 sq. yd. Documents from the Surveyor, Council Offices, Seaton Delaval, Whitley Bay. Tenders by May 21.

Settle, Yorks.—Excavation, roadworks, water main, surface water and foul drainage and contingent works at Hillcroft housing site, Bentham, for R.D.C. Documents from the office of N. L. Jaggar, engineer and surveyor, Town Hall, Settle. Deposit £2 2s. Tenders by May 23.

Somerset.—Proposed improvement, Butcher's Wool-Swainwick, for C.C. Deposit £2. Tenders by June 8.

Southend-on-Sea, Essex.—Kenilworth Gardens extension, housing site 32, for B.C. Apply by May 16. Deposit £2.

Southgate, Middx.—Footway maintenance, 1960-61, for B.C., comprising re-laying of approx. 10,000 sq. yd. of artificial stone paving footways and the reinstatement of paving in various roads following the erection of about 600 new lamp columns. Contracting paviors and masons interested in carrying out the work should apply in writing to the Borough Engineer and Surveyor, Town Hall, Palmers Green, London, N.13, for further particulars. Tenders by May 23.

Southgate.—Provision of bitumen macadam and hot rolled asphalt wearing courses to various roads, for B.C. Tenders by May 24.

Southgate.—Widening of Crown Lane (part), for B.C. Tenders by May 24.

Stourbridge, Worcs.—Construction of a car park at Victoria Street, for B.C., comprising surfacing in bitumen macadam and cold asphalt (100 tons), shaping, drainage and incidental works. Documents from H. W. Morris, borough engineer and surveyor, Council House, Stourbridge. Tenders by May 27.

Sunderland, Dur.—Following, for B.C.: (a) Park Avenue (side Cliff Road to Claremont Road) carriageway reconstruction, approx. 1,550 sq. yd. 8in. concrete foundation, etc.; (b) Roker Gill outfall sewer (concrete protection), approx. 246 cu. yd. of r.h. concrete. Documents from the Borough Engineer, 27 Fawcett Street, Sunderland. Deposit £2 2s. each. Tenders by May 21.

Walton and Weybridge, Surrey.—Private street works, for U.D.C. Tenders by May 31.

Warrington, Lancs.—Following, for R.D.C.: Contract 153—approx. 960 super. yd. of concrete flag paving to footways at Myddleton; Lane housing estate, Winwick; contract 154—approx. 820 super. yd. of concrete flag paving to footways at Hollins Green housing estate, Rixton. Documents from the Engineer and Surveyor, Council Offices, Warrington. Tenders by May 24.

West Riding.—Following, for C.C.: repairing timber fenders, including pile driving, also the renewal of riveted steel sway bracing and the straightening of three riveted steel posts at Boothferry Bridge which carries the Widmerpool-Howden trunk road, A.614, over the River Ouse near Goole. Documents from the County Engineer and Surveyor, County Hall, Wakefield. Deposit £1 (cheques payable to West Riding Treasurer). Tenders by May 19.

West Riding.—Repairs to roads and paths in random areas at Northgate Lodge, Pontefract, for C.C. Applications to the Divisional Architect, Bishopgarth, Westfield Road, Wakefield, by May 16. Tenders by May 30.

West Riding.—Repairs to roads and paths in random areas at Beech Towers, Staincliffe, Dewsbury, for C.C. Applications to the Divisional Architect, Bishopgarth, Westfield Road, Wakefield, by May 23. Tenders by June 13.

SEWERAGE, SEWAGE AND REFUSE DISPOSAL

Aberdeenshire.—Supply and installation of four 9in./9in. vertical spindle unchokeable centrifugal pumps, each 1,350 g.p.m., complete with motors, automatic starters, shafting, all pipes and valves within the pumping station, travelling crane, for the Lower Dee Valley drainage scheme, for C.C. Documents from the County Surveyor, 4 Albion Place, Aberdeen. Deposit £2. Tenders by June 17.

Aylesbury, Bucks.—Upper Winchendon sewerage and sewage disposal, for R.D.C. Deposit £2 2s. Tenders by June 7.

Bodmin, Corn.—Westheath sewerage scheme, for B.C., including the provision and laying of 577 lin. yd. of 9in. diameter, and 246 lin. yd. of 12in. diameter stoneware sewers, 600 lin. yd. of 12in. by 18in. concrete egg-shaped sewers and the construction of 17 manholes, together with a sewage disposal works comprising concrete tanks, conventional biological filters, drying beds, and ancillary works. Documents from G. H. Ivory and Partners, consulting engineers, 24 Athenaeum Street, Plymouth. Deposit £5 5s., cheques payable to B.C. Tenders by May 23.

Bollington, Ches.—Surface water drainage, for U.D.C. Deposit £1 1s. Tenders by June 3.

Bridgwater, Som.—Construction of 15in. diameter sewer, for B.C. Deposit £2 2s. Tenders by May 19.

Cannock, Staffs.—Sewage works extensions, for U.D.C. Apply by May 18.

Cardiff.—Colchester Avenue surface water relief sewer, for City Council. Deposit £2 2s. Tenders by May 31.

Cromer, Norfolk.—Extension of the 12in. soil water sewer and the extension of the 12in. surface water sewer in Holt Road, for U.D.C. Documents from the Surveyor, Council Offices, Cromer. Tenders by May 23.

Cuckfield, Sussex.—Construction of a sedimentation tank, two filter beds, sand filter, pumping station, sludge drying beds, storm-water and other tanks at Ardingly, contract 147, for R.D.C. Documents from the office of

A. Hutchings, engineer and surveyor, R.D.C. Offices, Bolto Road, Haywards Heath. Deposit £2 2s. Tenders by June 6.

Filey, Yorks.—Works of sewerage, for U.D.C., comprising the provision and laying of approx. 1,300 yd. of 4 in., 6 in. and 9 in. sewers, and the construction of a pumping station and an ejector station. Documents from the Acting Surveyor, Council Offices, Filey. The commencement of the works will not be before mid-September, 1960. Tenders by May 31.

Greenisland, Antrim.—Drainage scheme at Ardilea School, Shore Road, Greenisland, for Board of Governors, comprising approx. 90 lin. yd. of 6 in. diameter earthenware pipes, 25 lin. yd. of 9 in. diameter pipes and two manholes. Documents from D. W. Boyd and Co., architects, 43 Scottish Provident Buildings, Belfast. Deposit £2 2s. Tenders by May 17.

Hamilton, Lanarks.—Works at Burnbank, for B.C., comprising approximately: Providing and laying 130 lin. yd. 12 in. diameter and 125 lin. yd. 9 in. diam S. and F. fireclay pipe sewers and building manholes. Documents from Burgh Surveyor, Hamilton. Deposit £2 cheque. Tenders by May 23.

Hendon, Middx.—Construction of sewer at Cophall playing fields, for B.C. Deposit £2 2s. Tenders by June 3.

Hillsborough, Down.—Construction of a sewage disposal works at Galwally Avenue, Newtownbreda, for R.D.C. The work would involve the excavation for, and construction of, the following major units, together with the laying of all pipes and culverts, piling, the construction of channels, the laying of roads and paths, and the carrying out of all site works in general: (1) Grit tank approximate capacity 1,350 cu. ft.; (2) primary settlement tank approximate capacity 3,900 cu. ft.; (3) aeration tank approximate capacity 64,000 cu. ft.; (4) final settlement tank approximate capacity 33,000 cu. ft.; (5) primary digester approximate capacity 67,500 cu. ft.; (6) secondary digester approximate capacity 22,500 cu. ft.; (7) boiler house and pump house; (8) office block. Documents from William Barklie Maxwell, consulting engineer, 5 University Terrace, Belfast, 7. Deposit £10 10s., cheques payable to R.D.C. Tenders by June 13.

Huyton-with-Roby, Lancs.—Duplication of Swanside sewer, stage 1, for U.D.C. Tenders by May 27.

Kirkby-in-Ashfield, Notts.—Kirkby Mill outfall sewer, contract K.4, for U.D.C. Deposit £2 2s. Tenders by June 8.

Long Ashton, Som.—Construction of sewers at Winford between Potters Hill and Chew Magna, for R.D.C., consisting the construction of approximately 7½ miles of 15 in., 12 in., 9 in. and 6 in. sewers and manholes, storm-water overflow and house connections. Applications with details of similar work already executed, to Maynard Froud and Stevens, consulting engineers, Alliance House, Baldwin Street, Bristol, 1, by May 17.

Melton Mowbray, Leics.—Supply and installation of sewage pumping machinery electrically driven, with piping, valves, steel flooring, etc., for U.D.C. The required duties of the principal pumps are: Storm pump, 3,120 gallons per minute against 177 ft. head; sewage pump, 1,560 gallons per minute against 77 ft. head; sewage pump and stand-by, 780 gallons per minute against 64 ft. head. The contract also includes two sludge pumps and associated equipment. Documents from W. H. Radford and Son, consulting engineers, 57 Goldsmith Street, Nottingham. Tenders by June 1.

Midlothian.—Following, for C.C.: Construction of approximately 3,820 lin. yd. of 9 in. diameter concrete pipe sewers and 820 lin. yd. of rising main in 4 in. diameter steel tubes, together with manholes and various other concrete works. Applications to Partridge, Earp and Partners, 18 Great King Street, Edinburgh, 3. Deposit £5 5s.

Rugby, War.—Willoughby sewerage and sewage purification, contract 14, for R.D.C. Deposit £10 10s. Tenders by June 13.

Smethwick, Staffs.—Cranford Street reconstruction and surface water sewer, for B.C., comprising the construction of a new surface water sewer of approx. 370 lin. yd., varying from 24 in. to 36 in. dia., and the construction of a reinforced concrete silt chamber. The existing road will be reconstructed and the works will entail the laying of approx. 1,295 super. yd. of lean mix asphalt 8 in. thick, 3,175 super. yd. of hot rolled asphalt 1½ in. thick; 600 lin. yd. of concrete kerbs, and 2,070 super. yd. of concrete paving slabs. Written applications to the Borough Engineer and Surveyor, Council House, Smethwick. Deposit £2 2s., cheque payable to Borough Treasurer. Tenders by May 30.

Smethwick, Staffs.—Reconstruction and surface water sewer, at Cranford Street, for B.C., including the construction of a new surface water sewer of approx. 370 lin. yd. varying from 24 in. to 36 in. diameter, and the construction of a reinforced concrete silt chamber. The

existing road will be reconstructed and the works will entail the laying of approx. 1,295 super. yd. of lean mix asphalt 8 in. thick, 3,175 super. yd. of hot rolled asphalt 1½ in. thick, 600 lin. yd. of concrete kerbs and 2,070 super. yd. of concrete paving slabs. Written applications to the Borough Engineer and Surveyor, Council House, Smethwick. Deposit £2 2s., cheque payable to Borough Treasurer. Tenders by May 30.

Stockport, Ches.—Offerment surface water outfall sewer, for B.C., comprising 1,130 lin. yd. of 24 in.-39 in. dia. pipes in concrete and spun-iron pipes, together with manholes, outfall to watercourse, and other appurtenant works. Applications to Borough Surveyor, Town Hall, Stockport. Tenders by May 31.

Stroud, Glos.—Bridgend sewerage scheme, for R.D.C., comprising laying of sewers and construction of manholes, including approx. 250 lin. yd. of 9 in. dia. sewers; approx. 850 lin. yd. of 6 in. dia. sewers; approx. 17 precast concrete manholes; pumping station and rising main, together with ancillary works. Applications to W. Herbert Bateman and Partners, Chesterfield House, Bathaston, Bath, giving the names and addresses of at least two engineers under whose direction similar works have been carried out. Deposit £5 5s., cheques payable to R.D.C. Tenders by May 18.

Sutton and Cheam, Surrey.—Worcester Park sewage works, recirculation main, for B.C., including the laying of approx. 150 lin. yd. of 21 in. dia. spun-iron pipes. Documents from the Borough Engineer and Surveyor, Municipal Offices, High Street, Sutton. Deposit £2 2s., cheques payable to B.C. Tenders by June 3.

Walsingham, Norfolk.—Fakenham and Hempton sewerage, stages 2 and 3, contract 9, for R.D.C. Deposit £5 5s. Tenders by June 10.

West Deane, Glos.—Lydbrook sewerage and sewage disposal, contract 1, for R.D.C. Deposit £5 5s. Tenders by July 12.

Withernsea, Yorks.—Main drainage scheme, contract 2, for U.D.C., comprising supply and erection of two vertical spindle pumps, each capable of delivering a minimum of 1,250 gallons per minute, complete with electric motors, starters and accessories. Documents from John H. Haiste and Partners, consulting engineers, Belmont House, 20 Wood Lane, Headingley, Leeds, 6. Deposit £3 3s. (cheques payable to U.D.C.). Tenders by May 26.

Worsley, Lancs.—Construction of a foul water relief sewer on Wharton estate, approximate length 410 lin. yd., for U.D.C. Documents from the Engineer and Surveyor, Town Hall, Walkden. Deposit £2 2s. Tenders by May 21.

STREET LIGHTING

Bognor Regis, Sussex.—Street lighting improvements, phase 2, for U.D.C. Deposit £2 2s. Tenders by June 3.

Bridlington, Yorks.—Provision and erection of concrete lighting columns, bracket arms, lanterns and control gear, comprising 16 class A and 95 class B sodium lamps, for B.C. Documents from the Borough Surveyor, College House, Bridlington. Tenders by May 21.

Coulsdon and Purley, Surrey.—New group A sodium lighting in the following, for U.D.C.: (a) High Street, Purley; (b) Godstone Road—part of (Purley and Kenley); (c) Marlitt Lane, Coulsdon; (d) Smitham Bottom Lane, Purley; (e) Woodcote Grove Road, Coulsdon; (f) Woodcote Road, Purley. The works include the provision and erection of 215 Stanton concrete lighting columns and the provision and fixing of 140-W sodium lamps and G.E.C. lanterns on the above roads, and the removal of the existing street lighting equipment. Documents from H. M. Collins, engineer and surveyor, Council Offices, Purley. Deposit £4 4s. Tenders by May 24.

Dunbartonshire.—Proposed street lighting, Kildrum 5 area, Cumbernauld New Town, for C.C. Erection and wiring only of 70 fluorescent street and footpath lighting points. Applications to William Arthur, county sanitary inspector and lighting superintendent, 24 George Square, Glasgow, C.2, by May 21.

Dunstable, Beds.—Improvement of group A street lighting on A.5 London to Holyhead trunk road, for B.C., comprising supply, erection and bringing into service of a system of 126 sodium and fluorescent lighting units on steel columns, and the removal and dismantling of 80 existing mercury vapour units. Documents from the offices of the Borough Engineer, Municipal Offices, Dunstable. Deposit £2 2s. Tenders by May 23.

Ealing, Middx.—Street lighting, Madeley Road and Queens Drive, for B.C. Deposit £5. Tenders by May 31.

Ellesmere Port, Ches.—Supply and erection of 33 group A electric street lamps, Chester/Birkenhead trunk road A.41, contract 298,

for B.C. Documents from the Borough Engineer and Surveyor, Queen Street, Ellesmere Port. Tenders by May 19.

Littleborough, Lancs.—Street lighting works, for U.D.C. Tenders by May 30.

Lytham St. Annes, Lancs.—Supply, erection and wiring of 87 group A and 44 group B Stanton concrete lighting columns, complete with control gear, and dismantling and removal of 113 existing steel and cast-iron columns, for B.C. Documents from the Borough Surveyor, Town Hall, Lytham St. Annes. Tenders by May 31.

Stretford, Lancs.—Supply and delivery in Stretford of columns (15 ft. mounting, steel or concrete), lanterns, chokes, capacitors, etc., for street lighting purposes, for B.C. Documents from A. H. Perry, borough engineer, Town Hall, Stretford. Tenders by May 17.

Stretford, Lancs.—Supply and delivery of lamps for street lighting purposes (mercury, sodium, filament, and traffic-signal types), for B.C. Documents from A. H. Perry, borough engineer, Town Hall, Stretford. Tenders by May 17.

Winchester, Hants.—Street lighting, for City Council. Deposit £2 2s. Tenders by June 8.

Windsor, Berks.—Street lighting, for B.C. Tenders by May 30.

AWARDS

BUILDING AND DECORATING

(See also Housing Schemes)

Battersea.—Improvements to the teaching and sanitary accommodation at Sir Walter St. John's School, for L.C.C.: Sloggetts (Contractors), Ltd., Twickenham, Middx., £41,719 (accepted); Rice and Son, Ltd., £43,659; Howard and Co., £44,758; Courtney and Fairbairn, Ltd., £45,626; T. R. Roberts (Builders), Ltd., £46,062; Truett and Steel, Ltd., £47,893; J. and C. Bowyer, Ltd., £47,900.

Beckenham, Kent.—Demolition of existing premises in the High Street, and the erection of shops and offices on the site. R. Seifert and Partners, architects, 28 Great Ormond Street, London, W.C.1; Kyle Stewart (Contractors), Ltd., Ardsheel House, Wembley Park, Middx. Estimated cost £90,000.

Belfast.—Erection of new Government offices at Stormont, for Government of Northern Ireland: Higgs and Hill, Ltd., South Lambeth Road, London, S.W.8, £1,134m. R. H. Gibson and E. D. Taylor, architects, 16 Donegall Square South, Belfast; Ogilby and McCutcheon, quantity surveyors, 9 Upper Crescent, University Road, Belfast.

Bradford, Yorks.—Construction of public conveniences on a site in Lister Park, for City Council: Thomas Obank and Sons, Ltd., Thackley, Bradford, £6,350 (recommended).

Bridgwater, Som.—Erection of Holy Trinity Church, Greenfield estate. A. D. R. Caroe, architect, 16 Great College Street, Westminster, London, S.W.1; Robert Bros. (Contractors), Ltd., Taunton Road, Bridgwater. Work commenced.

Brighton, Sussex.—Construction of an additional two floors at the Metropole Hotel. R. Seifert and Partners, architects, 28 Great Ormond Street, London, W.C.1; Kyle Stewart (Contractors), Ltd., Ardsheel House, Wembley Park, Middx. Estimated cost £60,000. Work commenced.

Chichester, Sussex.—Erection of a factory at the industrial estate, Terminus Road (for occupation by Goodwood Metalcraft, Ltd.), for The Goodwood Estate Co., Ltd. E. Brian Tyler, architect, Westgate, Chichester; Booker and Sons, Walberton, near Chichester. Estimated cost £10,000. Work commenced.

Chelmsford, Essex.—Construction of pig accommodation at the new Cattle Market, for B.C.: Concrete Piling, Ltd., 10 Westminster Palace Gardens, Victoria Street, Westminster, S.W.1, £61,645.

Dagenham, Essex.—(a) Conversion of premises at Rectory Road into an old folks' all-day centre and dining and social club, and (b) construction of eight garages at Rainham Road, for B.C.: Direct Labour (recommended). Estimated cost £5,325 and £1,060, respectively.

Darlington, Dur.—Erection of laboratory block at Polam Hall School. Jean M. Ash, architect, 27 Eastwood Gardens, Kenton, Newcastle upon Tyne; Edgar Lawson, Ltd., 27 Victoria Road, Darlington.

Ealing, Middx.—Supply and erection of 22 garages at Northolt Park estate, for B.C.: Concrete Utilities, Ltd., Great Amwell, Ware, Herts., £1,485 (recommended).

Epsom and Ewell, Surrey.—Conversion of superintendent and manager's office at the

baths into buffet, for B.C.: H. H. and F. Roll, Ltd., 7 Ashley Road, Epsom, £1,265 (recommended).

Gloucestershire.—Initial civil engineering work in connection with the extension of plant at Severnside, for Imperial Chemical Industries, Ltd.: G. Wimpey and Co., Ltd., Hammersmith Grove, London, W.6.

Hackney.—Improving the teaching accommodation at Hackney Downs School and erection of a new science block, for L.C.C.: H. C. Horswill, Ltd., 182 Green Street, London, E.7, £27,532 (accepted); R. J. Adams, Ltd., £27,573; S. C. Grover, Ltd., £27,932; William Blood, Ltd., £28,089; R. J. Truscott, Ltd., £28,276; Tagg and Egerton, Ltd., £29,621; C. E. Wilkinson, Ltd., £30,710.

Hammersmith.—Adaptations, complete electrical rewiring, repairs, and redecoration at Hammersmith College of Art of Building, for L.C.C.: C. P. Roberts and Co., Ltd., 31 High Holborn, London, W.C.1, £70,840 (accepted); Gray, Conoley and Co., Ltd., £72,070; A. Roberts and Co., Ltd., £73,950; W. J. Marston and Son, Ltd., £76,000; Greenaway and Son, Ltd., £78,096; H. T. Oliver and Sons, Ltd., £80,136; Y. J. Lovell and Son, Ltd., £82,762; Marshall Andrew and Co., Ltd., £84,422; M. J. Gleeson (Contractors), Ltd., £85,215.

Hatfield, Herts.—Construction of a sports pavilion on the playing fields at Longmead, for Parish Council. D. Alexander, architect, 12 The Old Drive, Welwyn Garden City, Herts.: N. R. Morter, Cin Road, Welwyn Herts., £6,740 (accepted); Axtell and Harborough, Ltd., £7,410; Swiftplan, Ltd., £8,032; B. C. Whitting, Ltd., £8,343. Work commencing May, 9.

Havant and Waterloo, Hants.—External painting of 330 properties in six groups, for U.D.C. R. R. Hole, engineer and surveyor: groups 1, 2, 3, 5 and 6 285 houses—Johns and Harris, Briarwood, Mill Road, Fareham; group 4, 45 houses—Leigh Construction, Ltd., 32 Waterloo Road, Havant.

Heston and Isleworth, Middx.—Supply and erection of greenhouse at Plant Nursery Lampton Park, for B.C.: W. Richardson and Co., Ltd., 117 Victoria Street, London, S.W.1, £5,069 (recommended); Permaforce Ltd. (William Wood and Son, Ltd.), £6,556; Mackenzie and Moncur, Ltd., £5,345; Burt, Boulton and Haywood, Ltd., £5,160.

Hinckley, Leics.—Extension to factory at Hill Top, Earl Shilton, for T. Whitmore and Sons, Ltd. F. Boulter, architect, Borough Chambers; J. Pegg and Sons, Ltd., Church Street, Earl Shilton, Hinckley. Estimated cost £17,000, including fittings, etc. Work commencing June.

Hull.—Conversion of the Curzon Cinema into a supermarket, for Clifford Dunn, Konrad and Walker, architects, 112 Park Avenue, Hull: Geo. Houlton and Sons, Ltd., Hyperion Street, Hull. Work commenced.

Kidderminster, Worcs.—Following works, for B.C.: Construction of public conveniences at Mill Street—W. Weaver, Ltd., Bromsgrove, £5,160; exterior painting of 412 houses—Browne and Morton, Birmingham, £3,296 (recommended).

Kingsnton-upon-Thames, Surrey.—Erection of 23 garages at Kingsnympton Park estate, for Kingsnympton Park Joint Committee: Webb Bros., Melrose Gardens, New Malden, £4,400 (recommended, subject to Ministry approval).

Leeds.—Following works, for City Council: Provision of a portable hut linked to the drawing office of the annexe at Priestley House—Spooner's (Hull), Ltd., Glebe Road, Stoneferry, Hull, £2,977; building work at 229 Woodhouse Lane—Direct Labour. Estimated cost £4,445 (both recommended).

Liverpool.—Following works, for City Council: Erection of the new Stoneycroft School for E.S.N. Boys: Hibberts (Builder), Ltd., 103 Rockbank Road, Liverpool, 13, £97,963; erection of an assembly hall at Aigburgh Vale High School—William Hall and Son, Ltd., 60 Christian Street, Liverpool, 3, £17,345 (both recommended, subject to M.E. approval).

Erection of a cellulosic film factory for British Enka, Ltd., at Aintree, near Liverpool: Holland & Hannen and Cubitts (North West), Ltd., Bromborough, Ches., £1.6m. The consultants for the scheme are Harry Bannister and Partners, architects, 67 Rodney Street, Liverpool, 1; D. S. Grave, consulting engineer, 158 Thomas Lane, Liverpool, 14 and J. Youdan Briggs and Partners, quantity surveyors, Refuge Assurance House, Lord Street, Liverpool, 2.

Leicester.—Modernisation of the Queen Street depot, for British Railways: Wilson Lovatt and Sons, Ltd., Clarence Street, Wolverhampton, estimated cost £460,000. Work commencing end of June.

Leyton, Essex.—Following works, for B.C.: (a) Erection of an ablutions block, and (b) supply and erection of a prefabricated canteen at the depot—(a) Field-Davis, Ltd., St. Barnabas Church, High Street, London, E.9; and (b) Swiftplan, Ltd., 39 Victoria Street, London, S.W.1, respectively; repairs to properties in lists 25 and 26—(25) W. Oddy, Ltd., 190 High Road, London, E.10, £2,605; (26) C. J. Fish, Ltd., £4,382 (recommended).

Lowestoft, Suffolk.—Following works, for B.C.: External redecoration of 56 dwellings (group A)—W. Ames, Ltd., 20 North River Road, Great Yarmouth, £798; 90 (group B)—W. J. Davy and Sons, Ltd., Selby Place, Great Yarmouth, £1,366; 116 (group C)—Direct Labour, £1,574; 108 (group D)—H. D. Langlands, 23 Suffolk Road, Lowestoft, £1,560 (recommended).

Erection of boundary walls to certain houses at Newsun's Meadow—Direct Labour, £1,062 (recommended).

Luton, Beds.—Erection of science block at Luton High School, for E.C.: H. C. Janes, Ltd., 189 High Town Road, Luton. Estimated cost £100,950.

Luton, Beds.—Following works, for B.C.: Extensions to Challney Secondary School—M. and F. O. Foster and Sons, Ltd., 21-23 York Road, Hitchin, £22,014; conversion of a classroom into a science laboratory at Stopsley Secondary School—M. Lyons and Co., Ltd., 11 Ashburnham Road, Luton, £1,749.

Interior decoration of (a) Whipperley Infants', (b) Farley Junior, (c) Beech Hill Boys' and (d) Beech Hill Girls' Schools—(a) Howley Decorations, Ltd., 39 Princes Street, Luton, £960; (b) Manfords (Luton), Ltd., 7 Princess Street, Luton, £952; R. and D. Scotts, 86-88 High Town Road, Luton, (c) £924 and (d) £1,171.

Maidstone, Kent.—Following works, for B.C.: Erection of 34 garages at Queen's Road—P. A. Barden and Sons, Ltd., Weaving House, Ashford Road, Maidstone, £4,317; external painting of 771 houses and flats at Cherry Orchard and Shephway estates, 221 houses—G. W. Negus and Son, Inkstand Farm, Lenham, Maidstone, £3,033; 114 houses—Hickmott and Woolven, £1,521; 220 houses and flats—R. Corben and Son, Ltd., Crown Buildings, Sittingbourne Road, Maidstone, £2,941; 134 houses—C. E. Jackson, 539 Loose Road, Maidstone, £1,929; 82 houses—J. Durling and Son, Ltd., 86 Delce Road, Rochester, £1,066 (recommended).

Manchester.—Following works, for City Council: Erection of Wythenshawe swimming pool—Simon-Carves, Ltd., Cheadle Heath, Stockport, Ches., sub-contractors—supply and fixing of faience tiling to the swimming pool—Shaws Glazed Brick Co., Ltd., 44 Bedford Row, London, W.C.1.

Erection of the Arnfield treatment plant control and administration building—Simon-Carves, Ltd., sub-contractors; painting—A. Ford and Sons (Rochdale), Ltd., 240 Spotland Road, Rochdale; plumbing and glazing—Uttley Brothers, Ltd., 31 Chapel Lane, Wilmslow; roofing—Permanite, Ltd., Stanley Street, Salford, 3; plastering—Thomas Brothers, Ltd., Longshot Lane West, Stockport; joinery—E. E. Coleman, Ltd., Waverley Road Works, Sale; masonry and brickwork—Ashton and Homes, Ltd., Sutton Sidings, Macclesfield; paving and wall tiling—Ashcrofts (Wall and Floor Tilers), Ltd., 58 Manchester Road, Manchester, 21; wood block flooring—W. H. Hunt (Flooring), Ltd., 340 Stockport Road, Manchester, 13.

Sub-contractors for new Courts of Law—floor coverings—(a) cork—Mundet Cork Products, Ltd., Croydon; polyvinyl flooring—Semtex, Ltd., Salford; terrazzo floorings—Conway (Tiles and Terrazzo), Ltd., Manchester; internal marble wall lining—J. H. Patteson, Ltd., Manchester; polished Portland stone wall lining—John Stubbs (Marble and Quartzite), Ltd., Liverpool; marble flooring—J. H. Patteson, Ltd., Manchester; mosaic soffits—J. H. Patteson, Ltd., Manchester; sanitary fittings—Giddings and Dacre, Ltd., Manchester.

Structural steelwork for the Hough End Pavilion—Basil Williams (Engineers), Ltd., Tarporley; erection of building, comprising shelter, conveniences, tool shed, mess room and cycle store at Rothley Avenue Playpark, and at Culmure Road Playpark, Wythenshawe—F. Marsland, Stockport; supply and erection of new greenhouse at Alexandra Park—R. Halliday and Co., Ltd., Middleton.

Modernisation of the Withington Library—Moston Brick Co., Ltd., Manchester.

Alterations and extensions, Grange Street County Primary School—F. Marsland, Stockport; alterations at Collyhurst County Primary School—D. W. Dawson and Co.

(Builders), Ltd., Manchester (all recommended).

Mitcham, Surrey.—Construction of rescue training set at Mitcham Court, for B.C.: C. Ash and Son, Ltd., 71c South Side, London, S.W.4, £832 (recommended); Chas. Sayers and Son, Ltd., £905; H. J. Dring and Sons, Ltd., £961; Stanley Dale and Sons, Ltd., £1,153; Waldron Builders, Ltd., £2,175.

Newcastle-under-Lyme, Staffs.—Erection of a factory at Chesterton, for Jesshope, Ltd., Longport, Stoke-on-Trent; G. A. Poole, Ltd., Liverpool Road, Newcastle, Staffs., estimated cost £500,000. Hollins, Jones and Oldacre, architects, Lloyd's, Bank Chambers, Newcastle-under-Lyme, and Townsend and Renaudon, quantity surveyors, Shelton, Stoke-on-Trent. Work commenced.

Newcastle upon Tyne.—Extension to research block at King's College, for Durham University. Basil Spence, architect, 40 Moray Place, Edinburgh; John Laing and Sons, Dalston Road, Carlisle.

Newcastle upon Tyne.—Following works, for City Council: Adaptations of workshops at Whickham View for the adult blind—F. W. Briggs and Son, Ltd., High Street, Gateshead, £16,595; stage 2 of the rebuilding of the St. Mary Magdalene Hospital, comprising the erection of a further 24 bungalows and necessary site works—Ralph Bowley and Son, Ltd., Newcastle upon Tyne, £54,895 (recommended).

Oakham, Rutland.—External painting of 85 houses at Empingham, Exton, Market Overton and Whissendine, for R.D.C.: George Tyers Bros., Oakham, £1,062.

Oxford.—External painting of the following, for City Council: (Contracts 78-79) 60 houses and eight flats at Abingdon Road estate and 99 houses at Barton 1 estate—Jones and Reeves, 12 Westlands Drive Headington, Oxford, £1,258 and £3,324, respectively; (80) 66 houses and two flats at Barton 2 estate—D. and J. Exley (Decorators), Ltd., 113 Kingston Road, Oxford, £1,059; (81-82) 121 houses and 14 garages at Barton 4 estate and 70 houses at Cowley Road estate—Adler and Orr, Ltd., £1,547 and £2,430, respectively; (84) 271 houses and four flats at Cutteslowes 1 and 2 estates—D. and J. Exley (Decorators), Ltd., £6,947; (85) 228 houses at Donnington estate, Iffley Road, Oxford, £6,246; (87) 74 bungalows at Rose Hill 3 estate—S. J. Marshall, £888 (all recommended).

Penrith, Cumb.—Erection of public conveniences at Castle Park, for the U.D.C.: John Laing and Son, Dalston Road, Carlisle, £1,500.

Perivale, Middx.—Extension to factory and offices at Aintree Road, for Simmons Bedding, Ltd. E. Firmin and Partners, architects, Thavies Inn House, Holborn Circus, London, E.C.1; Percy Bilton, Ltd., Bilton House, Uxbridge Road, Ealing, W.5. Estimated cost £85,000. Work commenced.

Ploughley, Oxon.—Erection of 13 garages, Cherwell Estate, Kidlington, for R.D.C.: A. Barrett, 105 Oxford Road, Kidlington, Oxford, £825.

Plymouth.—Erection of additional office accommodation at Milehouse, for City Council: A. N. Coles, (Contractors), Ltd., Sutton Road, Plymouth, £7,999 (recommended).

Portsmouth.—Erection of a hall at Victoria Road North, for the Portsmouth Association for the Welfare of the Deaf and Dumb: J. Lay and Co. (Portsmouth), Ltd., 207 Arundel Street, Portsmouth, estimated cost £7,400. V. G. Cogswell, architect, 4 The Close, Queens Grove, Southsea; and T. Lambie, quantity surveyors, Pearl Buildings. Work commenced.

Ramsgate, Kent.—Erection of one refreshment kiosk each at King George VI Memorial Park and Hugin site, for B.C.: Direct Labour, £1,136 and £1,104, respectively (recommended).

Richmond, Yorks.—Provision of two sanitary blocks at Caraugn Park, for B.C.: F. Shepherd and Son, Ltd., Richmond, £2,287 (recommended); A. Horsman, £2,389; C. Chapleo and Sons, £2,483; R. Dodds and Sons, £2,488; G. W. Shaw, £2,540.

Romford, Essex.—Rebuilding of departmental store at the Market Place, for L. F. Stone and Co., Ltd. Roff Marsh, architect, 125 New London Road, Chelmsford—W. and C. French, Ltd., 50 Epping New Road, Buckhurst Hill, Essex. Work has commenced.

Rugby, War.—Erection of the new pump house and office block at the Avon Waterworks, for B.C.: G. W. Deeley, Ltd., Torrington Avenue, Tile Hill, Coventry, £4,193 (recommended).

Salford, Lancs.—Following works, for City Council: Alterations and improvements at police headquarters—John Dickinson and Co. (Bolton), Ltd., Bolton, £2,753; painting

and decorating in connection with the erection of 56 four-storey maisonnettes on the Regent Road housing site—Direct Labour, £3,602 (recommended).

Adaptations and extensions to Cromwell Secondary Modern School—Ashton Smetthurst (Builders), Ltd., Salford Street, Middleton, Lancs., £18,293 (recommended, subject to M.E. approval).

Salford, Lancs.—Erection of offices at Douglas Green, for Charles Weston and Co.: Wm. Turner (1946), Ltd., 4 Oat Street, Stockport, £25,000. Arthur R. Johnson, architect, 14a Piccadilly, Manchester, 1; Tozer and Partner, quantity surveyors, Sunlight House, Quay Street, Manchester.

Scunthorpe, Lincs.—Re-roofing of 12 pre-war houses in the Crosby area, for B.C.: G. Dalton and Son, Ltd., Grimsby, £1,265 (recommended).

Sheffield.—Following works, for City Council: Erection of conveniences at Beaver Hill Recreation Ground—C. Otter and Co., Ltd., 148-152 Harvest Lane, Sheffield, 3, £1,167; erection of a police station at Brookhill—Direct Labour. Estimated cost £1,500. Erection of phase 3 of the College of Technology—Persons, Ltd., 4 Dollis Park, London, N.3, £1,178,586; erection of hostel accommodation on site of Woodville under phase 2 of alterations and extensions of the College, and phase 2 of adaptations at Moor-side Approved School—Direct Labour. Estimated cost £158,878 and £10,000, respectively.

Repairs, etc., 59-69 (odd numbers), 1 and 2 in Court 5 and 1, 2 and 3 in Court 7, Aberdeen Street—E. Close, Ltd., 1 Stalker Place, Sheffield, 11, £1,824; 44-50 (even numbers) and 1-4 (consecutive) in Court 4, Clifton Street—G. Banks, Ltd., 665 Attercliffe Common, Sheffield, 9, £1,847; 74-86 (even numbers) and 5-9 (consecutive) in Court 8, Carbrook Street; and 64-72 (even numbers) and 1-4 (consecutive) in Court 8, Carbrook Street—Frank Clover and Sons, Ltd., 11 Norton Lees Lane, Sheffield, 8, £1,784 and £1,881, respectively; 1-8 (consecutive) in Court 7, Monmouth Street—Ackroyd and Abbott, Ltd., 47 Willoughby Street, Sheffield, 4, £1,840 (all recommended).

Smethwick, Staffs.—(a) Structural steel, and (b) reinforcement for major extensions to Chance Technical College, for B.C.: (a) Rubery Owen and Co., Ltd., 11 Greenfield Crescent, Edgbaston, Birmingham, 15, £5,861, and (b) Helical Bar and Engineering Co., Ltd., 183 Broad Street, Birmingham, 15, £485 (recommended).

Southall, Middx.—Redecoration of Technical College, for C.C.: H. Burnham, 2 Fruen Road, Feltham, £3,460 (recommended).

Southwark.—Painting and decorating works and repairs on various estates, as follows: Amery House, Kingslake Street—Direct Labour (accepted); J. Butler (Builders), Ltd., £1,328; Stegradou London, Ltd., £1,349; Decorating and Design Services, Ltd., £1,423; Collins (Contractors), Ltd., £1,426; Arnold and Burns House, Doddington Grove—Decorating and Design Services, Ltd., 272 Upland Road, S.E.22, £1,302 (recommended); J. Butler (Builders), Ltd., £1,455; Collins (Contractors), Ltd., £1,545; Stegradou London, Ltd., £1,646; Comus House, Comus Place—J. Butler (Builders), Ltd., 110 Paradise Street, S.E.16, £1,868 (recommended); Decorating and Design Services Ltd., £2,046; Collins (Contractors), Ltd., £2,096; Stegradou London, Ltd., £2,175; Michael Faraday House (blocks C and D), Westmoreland Road—J. Butler (Builders), Ltd., £705 (recommended); Stegradou London, Ltd., £727; Decorating and Design Services, Ltd., £788; Collins (Contractors), Ltd., £961; Penrose House, Penrose Street—Collins (Contractors), Ltd., 14 Consort Road, S.E.15, £2,526; J. Butler (Builders), Ltd., £3,115; Stegradou London, Ltd., £3,220; Decorating and Design Services, Ltd., £3,223; Ringfield, Trafalgar and Walsham Houses, Nelson estate, East Street—Stegradou London, Ltd., 69 Knights Hill, S.E.27, £1,623; Collins (Contractors), Ltd., £1,795; J. Butler (Builders), Ltd., £1,888; Decorating and Design Services, Ltd., £1,953.

Spennymoor, Dur.—Alterations and additions to the Town Hall, for the U.D.C.: G. Stephenson (Builders and Contractors), Ltd., Chester Street, Bishop Auckland, £40,699.

Stoke Newington.—Repairs and adaptation works to 34 Hawksley Road, 7 Winston Road, 217 Green Lanes and 32a Yeakley Road, for B.C.: Direct Labour (recommended). Estimated total cost £5,198.

Sutton and Cheam, Surrey.—Following works, for B.C.: Adaptations to 23 Cheam Road, Sutton—Direct Labour (recommended). Estimated cost £1,385.

External painting of 84 houses in Marlborough Road area—Griffin Bros., £1,092 (recommended).

Swindon, Wilts.—Erection of cleansing and disinfection centre, Barnfield Road, for B.C.: J. Laing and Son, Ltd., Mill Hill, London, N.W.7, £9,401 (recommended).

Watford, Herts.—Erection of public conveniences at Bushey Arches, for B.C.: H. Seabrook and Son, 140 Chester Road, Watford, £2,733 (recommended).

West Bromwich, Staffs.—Construction of a crematorium at junction of Newton Road and Forge Lane, for B.C.: Direct Labour, £74,867 (recommended).

Weymouth, Dorset.—External painting of (a) Shirecroft Road—68 houses; (b) Salisbury Road—30 flats; and (c) Corporation Road, etc.—29 houses, for B.C.: M. Dunne, 32 Cleveland Avenue, Weymouth, £1,190, £390 and £623, respectively (recommended).

Wigston, Leics.—External repainting of 250 houses and bungalows and nine garages in one or two contracts (part 1—170 houses and bungalows and nine garages; part 2—80 houses), for U.D.C.: F. Isherwood, engineer and surveyor; C. and A. Decorators, Ltd., 341 Humberstone Road, Leicester, part 1 £1,644 and part 2 £810.

Willesden, Middx.—Improvements to washing facilities at Wykeham School, for B.C.: G. Holland and Sons, Ltd., Broomfield Works, London, W.13, £1,210 (recommended).

Willesden, Middx.—Following works, for C.C.: Partial interior and exterior redecoration to Technical College—F. Troy and Co., Ltd., Frognaal, London, N.W.3, £4,214 (recommended).

Redecoration of interior of Aylestone and Chamberlayne Secondary Schools—Direct Labour (recommended). Estimated cost £3,715 and £3,735, respectively.

Wood Green, Middx.—Construction of greenhouses, including the installation of heating apparatus at Plant Nursery, Wolves Lane, for B.C.: Burt, Boulton and Haywood, Ltd., Crabtree Manor Way, Belvedere, Kent (recommended).

Worcester.—Following works, for City Council: Erection of a kitchen and small hall dining room at Christopher Whitehead Boys' School and 132 brick garages at Warndon housing estate and Bromwich Road—J. Wood and Sons (Worcester), Ltd., Gregorys Mill Street, Worcester, £21,432, and A. C. Lloyd (Builders), Ltd., Chapel Street, Leamington Spa, £21,831, respectively (recommended, subject to Ministry approval).

External maintenance repairs and pointing to 132 houses on the Tolladine and Tunnel Hill estates—(Contracts a and b) T. Oliver (Builder), Ltd., 120 Ombersley Road, Worcester, £1,370 and £1,458, respectively; (c and d) Goodwin and Hammacott, 11 Bank Street, Worcester, £1,727 and £1,195, respectively (recommended).

DEMOLITION

Belford, Northumb.—Demolition and clearance from the site of three buildings in the Old Station Yard, Seahouses, for R.D.C.: W. R. Kirk, surveyor; E. D. Redpath, Bridge End, Wooler, Northumberland, £18. Work commencing May 13.

Bradford, Yorks.—Demolition of property bounded by Hall Ings, Forster Square, Swaine Street and Colliergate, for City Council: S. Church, Allerton Bywater, near Castleford, £3,467 (recommended).

Corby, Northants.—Demolition of the old public hall, for U.D.C.: D. W. Greaves, engineer and surveyor; J. Fielding, Hadfield, Manchester, £100. Work about to commence.

Harwich, Essex.—Demolition of 5, 6 and 7 Kings Head Street, for B.C.: E. Heath, 10 Eastgate Street, Harwich, £100 (recommended).

Heston and Isleworth, Middx.—Demolition of 3-39b (odd) and 55-67 (odd) Pears Road, Hounslow, for B.C.: Frank Valori, Ltd., 34 Christchurch Road, London, S.W.2, £293 (recommended); Willment Bros., Ltd., £750; Goodman Price, Ltd., £623; London Demolition Co., Ltd., £567; Leonard Perlin, Ltd., £333; P. H. Lucas, £150.

Liverpool.—Demolition of fire station buildings at All Saints Road, Speke, for City Council: W. H. Walters, 101 Hebdon Road, Liverpool, 11, £350 (recommended).

Potters Bar, Middx.—Demolition of lodge at Elm Court, Mutton Lane, for U.D.C.: Hall and Co., Ltd., Cherry Orchard Road, Croydon, Surrey, £56 (recommended).

Sheffield.—Demolition of the following, for City Council: Properties within stage II of the Woodside Lane redevelopment area—H. Hodges, 18 Manor Laithie Road, Sheffield, 2, £1,251; Netherthorpe redevelopment area, stage 3—S. Williams, £745; Park Hill Open Space—M. H. and N. B. Lindley, £273; former builder's yard, Young Street—G. Johnson, £40; building at the Truswell's

Brewery premises, Eyre Street—J. Childs, £500 (all recommended).

Southwark.—Demolition of 53 and 55 Hatfields on the Eccles Place site, for B.C.: E. W. Spears and Co., Ltd., 53 Callender Road, London, S.E.6, £573 (recommended); H. Cox and Sons, Ltd., £588; Goodman Price, Ltd., £612; Henry Froud, Ltd., £645.

Swindon, Wilts.—Demolition of the following, for B.C.: Red House at Rodbourne sewage works and 1 Holbrook Street—Cook Bros., 18 Gladstone Road, Chippenham, £85 and £40, respectively; properties in John Street, John Street Terrace, John Street Gardens, and King Street—F. R. Gould, £615 (recommended).

Watford, Herts.—Demolition and site clearance of 7 and 7a Water Lane; 19, 20, 21, 22, 23 and 25 Herbert Street; and 82 Derby Road, for B.C.: W. Button and Son, 200 Prestwick Road, Carpenders Park, £832 (recommended).

West Bromwich, Staffs.—Demolition of 57 houses at Ebenezer Street, and 12 at Dial Lane, for B.C.: J. Chapman, 195 Belgrave Road, Birmingham, 12, £1,239 (recommended).

ELECTRICAL

Ealing, Middx.—Rewiring of part of Northfields Secondary Girls' School, for B.C.: Buchanan and Curwen, Ltd., 66 Victoria Street, London, S.W.1, £822 (recommended).

Luton, Beds.—Electrical installations in science block and in connection with the conversion of the swimming pool at Luton High School, for E.C.: H. C. Jones, Ltd., 189 High Town Road, Luton, £6,516.

Luton, Beds.—Following works, for B.C.: Provision of electrical services to 20 old people's dwellings at junction of Farley Hill and Whipperley Way—E. Twigg, 61 Wenlock Street, Luton, £1,700; electrical installation in Challney Secondary School extensions—J. H. Burtenshaw, Luton, £881.

Manchester.—Following works, for City Council: Design and erection of the lighting protective system for nine-storey block of flats at Kingsgate Road, Woodhouse Park—A. N. Wallis and Co., Ltd., Nottingham.

Electrical installation for the following: Ridgway Street, five shops and five dwellings—N. A. Cockcroft, Flitton; Kelstern Square, Anson estate, four dwellings—R. E. Smith, Whitefield; Partington, 117 dwellings—Simmons Electrical Contracting Co., Chadderton.

Electrical installation at the Plant Hill Road and Charlestown Road combined clinics, Blackley—Four Cousins (Electrical Contractors), Ltd., Liverpool.

Peterborough.—Electrical installations in 54 flats and 38 houses at Gunthorpe housing estate, for City Council: M. F. Hansen, £1,476, and Peterborough Electrics, £758, respectively (recommended).

Scunthorpe, Lincs.—Electrical wiring to modern standards of 243 houses in the Crosby area, for B.C.: G. J. A. Rowley, Worcester, £6,201 (recommended).

Smethwick, Staffs.—Following works, for B.C.: Installation of electrical equipment in dwellings being erected at Stanhope Road and Uplands—Williams Bros. (Electrical), Ltd., 101 Sladefield Road, Birmingham, 8, £30,267; electrical installation in Holly Lane Police Sub-station and maisonnettes—Midlands Electricity Board, £1,972 (recommended).

FENCING

Ealing, Middx.—Fencing of (a) Arundell Schools; (b) Brentside Secondary School; (c) Downe Manor Schools; (d) Greenford Grammar School, for B.C.: Allen Fencing, Shepperton. (a) 14s. 7d. per yd. run; (b) and (c) 14s. 9d. per yd. run; (d) 16s. 5d. per yd. run (recommended).

Hornsey, Middx.—Boundary fencing at Muswell Hill Sports Ground, for B.C.: Johnson Bros. and Co., Ltd., £1,767.

Kingston-upon-Thames, Surrey.—Close board fencing along boundary of Garden of Remembrance and Norbiton Sports Ground, for B.C.: Perfamence, Ltd., 225 High Street, London, W.3, £1,027 (recommended).

Luton, Beds.—Repairs to fencing at Challney, Beech Hill Girls', Stopley Boys' and Whipperley Infants' Schools and Alder Crescent Playing Field, for B.C.: Peerless Fence and Products, Ltd., Harefield, £1,547.

GAS AND WATER SUPPLY

Barrow-in-Furness, Lancs.—Construction and testing of the trial borehole at Leith Flat Brow, for B.C.: C. Isler and Co., Bear Lane, London, S.E.1, £5,024.

Bradford, Yorks.—Supply and installation of seven gate type waste water meters, for waste water detection, for City Council: G. Kent, Ltd., Luton, £1,259, and Direct Labour, £4,396, respectively (recommended).

Chelmsford, Essex.—Provision, laying and jointing of approximately 380yd. of 4in. and 43yd. of 3in. asbestos-cement pressure pipes, together with all incidental works, estate development off Swan Lane, Runwell, for R.D.C. S. W. Harvey, engineer and surveyor; G. J. Bardwell, Montrose, Cold Norton, Chelmsford, £738. Work commencing June.

Chelmsford, Essex.—Following works, for R.D.C. S. W. Harvey, engineer and surveyor: Proposed water main, Furlongs estate, Ingatstone—laying and jointing of approx. 547yd. of 4in. and 180yd. of 3in. asbestos-cement pressure pipes, together with all incidental works—D. and H. (Contractors), Cambridge, Ltd., 83 Regent Street, Cambridge, £1,313 (accepted); R. W. Hill and Co., Ltd., £1,527 (work commencing June); water mains (phase 1) at housing site, Great Baddow, comprising provision, laying and jointing of approx. 570 lin. yd. 4in. dia. asbestos-cement pressure pipes, together with all incidental works—G. J. Bardwell and Sons, Contractors, "Montrose," Cold Norton, Chelmsford, Essex, £1,028 (accepted); S. R. Jones and Co., Ltd., £1,157 (work commencing June-July).

Cheltenham, Glos.—Provision of filtration plant for the children's pool at Sandford open-air pool, for B.C.: Bell Bros. (Manchester), 1927, Ltd., Calder Ironworks, Denton, Manchester, £1,341 (recommended).

Chesham, Bucks.—Provision, laying and jointing of approximately 530 lin. yd. of 6in. diameter water main in flexible jointed spun-iron pipes and specials, from Taylor's Farm Allotments to Codmore Cross, Chesham, for R.D.C. J. E. Taylor, engineer and surveyor; L. K. Mayhew, Hemel Hempstead, Herts., £1,998.

Chichester, Sussex.—Construction of a reinforced concrete roof, etc., at the High-down Reservoir, for City Council. A. N. Burgess, water engineer and manager; A. L. J. Davis (Public Works), Ltd., Quarry Lane, Whyke, Chichester, £1,432.

Clun, Salop.—Chirbury, Marton and Bent Lont water supply scheme, for R.D.C., comprising the construction of about 40,000 lin. yd. of asbestos-cement water mains, 2in., 3in. and 4in. dia.; about 5,000 lin. yd. of smaller dia. water mains; three reinforced concrete service reservoirs. A. H. S. Waters and Partners, consulting engineers, 25 Temple Row, Birmingham, 2; Jenks Builders, Ltd., Crescent Lane House, Crescent Lane, Shrewsbury, £133,892 (accepted); W. R. McPhillips, £134,361; Alrewas Plant Hire, Ltd., £134,583; R. J. Russell, Ltd., £137,944; V. A. Groom, £141,076; Buttington Road Rolling Co., Ltd., £141,550; Crawshaw, Robbins and Co., Ltd., £145,910; P. J. Mangan and Co., Ltd., £148,475. Work commencing July 1.

Colne, Lancs.—Calder Mill and Waterside area water supply scheme, for B.C.: Direct Labour (recommended). Estimated cost £1,600.

Liverpool.—Following works, for City Council, comprising work in connection with laying of the 60in. diameter pipeline of aqueduct from Huntington to Morton Water Tower: (Contract 8) 6½ miles of pipeline from Huntington to Barrow—R. G. Horton, Ltd., Brierley Hill, Staffs., £289,639; (9) six miles from Barrow to Frodsham—Mactrac (Engineering), Ltd., Old Lane, Little Hulton, Walkden, Manchester, £302,467; (10) 2½ miles from Frodsham to Morton—G. Dew and Co., Ltd., Main Road, Oldham, £308,887.

Construction of pumping station buildings (which include the river intake works and pumping station and the high lift pumping station, together with some site works) at Huntington, near Chester—F.C. Construction Co., Ltd., City Road, Derby, £359,670 (all recommended).

Manchester.—Following, for City Council: Reconditioning of water mains—Tate Pipe Lining Processes, Ltd., London; supply of 8in. dia. spun-iron concrete-lined pipes and joints—Clay Cross Iron and Foundries, Ltd., Clay Cross, Chesterfield; supply of 8in. dia. spun-iron concrete-lined pipes and joints—Cochranes (Middlesbrough) Foundry, Ltd., Middlesbrough.

Northamptonshire.—Laying of approximately 2,630yd. of 6in. diameter, 3,600yd. of 4in. diameter and 1,440yd. of 3in. diameter spun-iron pipes in and around the village of Harlestone, contract 444, for the Mid-Northamptonshire Water Board. Leonard H. Brown, civil engineer, Cliftonville, Northampton; Crawshaw Robbins and Co., Ltd., Scaldwell, Northampton, £5,066.

Oxford.—Following works, for City Council: Provision of 9in. water mains to serve the Cowley redevelopment area—Direct Labour (recommended). Estimated cost £4,100.

Supply of (a) spun-iron pipes and cast-iron specials, and (b) valves and fittings for the Northern By-pass connecting main

—(a) Stanton Ironworks Co., Ltd., near Nottingham, £15,602, (b) Glenfield and Kennedy, Ltd., 105 Park Street, London, W.1, £2,938; hangers and anchors for attaching 18in. steel pipes to bridge structures for Western By-pass ring main—J. H. Grant, Ltd., 64 Princes Street, Oxford, £895 (all recommended).

Startforth, Yorks.—Laying of water mains and the construction of reservoir for the Bowes-Boldron water supply scheme, for the R.D.C. Fairbank and Son, consulting engineers, 62a Bootham, York; Squire Swift, Ltd., Portholme Works, Selby, Yorkshire, £38,343.

West Penwith, Corn.—Laying of approximately 1,182 lin. yd. of 3in. water main, for West Cornwall Water Board. J. H. Blight, engineer to the Board; F. W. Hunt, 58 Clinton Road, Redruth, £2,343 (accepted, subject to Ministry approval); E. Thomas and Co., Ltd., £2,951. Work to commence Aug. 2.

Williton, Som.—Clatworthy water supply scheme, contract 11, water main from Willett to Bilbrook, for R.D.C. S. E. Balch, engineer and surveyor; George Lawson and Son, Ltd., Wraxall, Bristol, £45,593. Work has commenced.

HEATING AND VENTILATING

Cheltenham, Glos.—Hot water installations in new pavilion at King George V playing field, for B.C.: Truswell and Son, Ltd., Warwick Buildings, Warwick Place, Cheltenham £1,498 (recommended).

Ealing, Middx.—Improvements to heating at Wood End Infants' School, for B.C.: Direct Labour (recommended). Estimated cost £800.

Gateshead, Dur.—Supply and installation of central heating system at Gateshead motive power depot, for British Railways: Brightside Heating and Engineering Co., Ltd., Lambton Road, Newcastle upon Tyne.

Leeds.—Heating and domestic hot water installations at the Social Centre, Roundhay Road, and heating, domestic hot water and electrical installations at Stratford House, for City Council: Vincent Roberts and Co., Ltd., 7 East Street Mills, Leeds, 9, £2,713, and Allenby and Stokell, Ltd., 83 Back New Briggate, Leeds, 2, £1,280, respectively (recommended).

Luton, Beds.—Heating of the science block and swimming pool at Luton High School, for E.C.: Watkin Heating and Electrical Co., Ltd., 72a Blandford Street, London, W.1, £13,524.

Luton, Beds.—Following works, for B.C.: Supply of two boilers for the heating installation at Dunstable Road Primary School—Binns and Speight, Ltd., Bradford, £1,402; heating, hot and cold water services for Challney Secondary School extensions—S. Mills, Ltd., 28 Vicarage Street, Luton, £2,990; heating installation in Dunstable Road Primary School—Watkin Heating Co., Ltd., 72a Blandford Street, London, W.1, £9,877.

Norwich.—Installation of a new oil-fired heating system for Norwich City College, St. George Street premises, for City Council: Supply and installation of the heating plant—F. L. Lawrence (Engineers), Ltd., 66 Prince of Wales Road, Norwich, £7,892 (recommended).

Electrical and building work—Direct Labour (recommended). Estimated cost £2,000.

Smethwick, Staffs.—Replacements and conversion to oil-firing at various schools, for B.C.: Froggatt and Prior, Ltd., 16 Lionel Street, Birmingham, 3, £3,331 (recommended).

Stoke Newington.—Installation of a new boiler at Church Street Baths, for B.C.: Comyn Ching and Co. (London), Ltd., 15 Shelton Street, London, W.C.2, £1,155 (recommended).

Willesden, Middx.—Engineering work for alterations to heating system at Dudden Hill School, for B.C.: R. J. Audrey, £1,918 (recommended).

HOUSING SCHEMES

Acton, Middx.—Following works, for B.C.: Thirty-nine flats and maisonettes at Enfield Road—W. J. Marston and Son, Ltd., 1 Stephendale Road, London, S.W.6, £104,268 (recommended, subject to Ministry approval).

Conversion of 73 Creffield Road into four flats—May and Oliver, Ltd., 65 Ridley Avenue, London, W.13, £2,980 (recommended).

Bath, Som.—One hundred and twenty-two dwellings and 16 garages at Twerton/White-way estate (contract 5), for City Council.

J. G. Wilkinson, city architect; E. Mortimer and Son, Ltd., High Street, Bath, £196,525. Work commencing May 16.

Becles, Suffolk.—Fifteen bungalows at Kilbrack, Grove Road, Ellough Road and Puddingmoor, for B.C.: Harvey and Leech, Ltd., Newgate, Bungay, £16,295 (recommended).

Bradford, Yorks.—Eighty-nine dwellings and 10 garages on the Holme Wood estate, for City Council: Direct Labour, £136,062 (recommended).

Dagenham, Essex.—Floors and staircases, etc., for Limbourne Avenue estate, for B.C.: Flooring Contracts (London), Ltd., 11 Lower Grosvenor Place, London, S.W.1, £10,914 (recommended).

Doncaster, Yorks.—Sixteen flats (two four-storey blocks of eight) in the Central Area, for B.C.: J. Dixon (Doncaster), Ltd., Greenfield Lane, Doncaster, £31,141 (in lieu of previous tender).

Enfield, Middx.—Tenders received for the following works, for B.C.: Twenty-four dwellings at Dabbs Hill Lane, Northolt Park estate—Wembley Construction, Ltd., £41,074; A. E. Islip and Co. (Builders), Ltd., £41,487; G. T. Crouch, Ltd., £42,074; Sherman and Co. (Baling), Ltd., £42,464; Circle Construction Co., Ltd., £43,161; Talbot and Son, £43,498; Geo. Moss (London), Ltd., £44,219; J. Lawson and Co., Ltd., £44,718; E. S. Moss, Ltd., £45,084; T. F. Nash (Contractors), Ltd., £46,461; R. E. Styles (Ditton), Ltd., £47,557; W. E. Chivers and Sons, £48,770; Poolman Builders, Ltd., £54,107.

Conversion of 21 Waldeck Road into two flats—G. W. Gillam and Sons, £1,277; A. Jackson, £1,296; May and Oliver, £1,674; L. and H. Brown, £2,180; Buckingham and Sons, Ltd., £2,190.

Conversion of 10 Leopold Road into four flats—A. Jackson, £1,985; George Holland and Sons, £2,150; K. L. Williams, £2,335; G. W. Gillam and Sons, £2,405; Buckingham and Sons, Ltd., £2,762; L. and H. Brown, £3,249; J. and S. Hinds and Co., £3,410.

Harwich, Essex.—Redevelopment of area 1, for B.C.: Walter Lawrence and Son, Ltd., Ventnor House, London Street, Swaffham, Norfolk, £85,182 (in lieu of previous tender).

Havant and Waterloo, Hants.—Twenty aged persons' flats at Forest End, Waterlooville, for U.D.C. R. R. Hole, engineer and surveyor; J. V. Figgins, Ltd., 271a London Road, Portsmouth.

Leeds.—Ten dwellings on the Moortown estate, for City Council: Direct Labour, £14,762.

Liverpool.—Following works, for City Council: 10 flats at Runtun Road, Lee Park estate, eight flats at Menlove Avenue, Woolton, 14 flats at Utting Avenue East and Norris Green Crescent and 12 dwellings at Mill Street and Toxteth—R. J. Barton and Sons, Ltd., Altcar Road, Formby, £14,591, £15,731, £23,161 and £21,357, respectively; four houses at Cathedral Road and Manningsham Road and three houses at Verona Street—G. H. Smith (Liverpool), Ltd., Finvoy Road, Liverpool, 13, £10,375 and £8,280, respectively; construction of an additional 67 dwellings on the Childwall Valley estate—Unit Construction Co., Ltd., Speke Boulevard, Liverpool, 24, £101,393; 28 dwellings, including site works, external pavings, drains, fences and boundary walls at the junction of Speke Road and Charterhouse Road, Woolton—Peak Construction (Liverpool), Ltd., 95 Broad Lane, Liverpool, 11, £40,014 (all recommended, subject to Ministry approval).

Manchester.—Following works, for City Council: Fifteen dwellings at Wood Street, Langley, 326 dwellings, five shops and three laundries at Miles Platting redevelopment area, stage 2, and general contractors' work for nine-storey block comprising 81 dwellings at Hollyhedge roundabout, Wythenshawe—Direct Labour (recommended, subject to Ministry approval).

Foundation work and erection of reinforced concrete frame for scheme of 81 dwellings in a nine-storey block at Hollyhedge roundabout, Wythenshawe—Truscon, Ltd., 35 Lower Marsh, London, S.E.1 (recommended, subject to Ministry approval).

Asphalt roofing for the following: Plant Hill Road, Blackley, 20 dwellings—Limmer and Trinidad Lake Asphalt Co., Ltd., Manchester; Churnet Street, Collyhurst, 27 dwellings, Kelstern Square, Anson estate, four dwellings, and Miles Platting, 193 dwellings—R. H. Lord (Asphaltes), Ltd., Pendleton.

Asphalt flooring for the following: Partington, 206 dwellings and 117 dwellings—William Townson and Sons, Ltd., Bolton; Plant Hill Road, Blackley, 20 dwellings—R. H. Lord (Asphaltes), Ltd., Pendleton.

Peterborough.—Thirty-two flats at Bluebell housing estate extension, for City Council:

N. J. H. Overton, 13 Sheridan Street, Peterborough, £2,258 (recommended, subject to Ministry approval).

Pitlochry, Perth.—Twelve houses at Tom-Na-Moan housing site, for B.C.: A. B. Kennedy and Son, Pitlochry.

Plymouth.—Roof tiling for 26 houses at Southway estate, for City Council: The Marley Tile Co., Ltd., Hatchpond Road, Waterloo, Poole, £1,060 (recommended).

Rotherham, Yorks.—One hundred and thirty-four houses and 32 garages on the Kimberworth Park estate, for B.C. E. J. Manson, borough engineer: Frank Haslam and Co., Ltd., Regent Chambers, Hall Cross, Doncaster, £167,052. Work commencing June 1.

Sedgefield, Dur.—Forty-two houses on various sites, for R.D.C.: Direct Labour.

Sheffield.—Following, for City Council: Lindsay Road-in-filling site: 72 dwellings and 34 garages—J. F. Finnegan and Co. (Sheffield), Ltd., 847 Eccleshall Road, Sheffield, 10, £142,000; 40 dwellings and 20 garages—M. J. Gleeson (Contractors), Ltd., 816-822 Chesterfield Road, Sheffield, 8, £84,053; 36 dwellings and eight garages at the Greenhill-Broadway estate—T. V. Simpson, 55 Bradway Road, Sheffield, £44,426 (recommended, subject to Ministry approval).

Stokesley, Yorks.—Six old people's houses at Great Ayton, for R.D.C.: Spence Brothers, Great Ayton, £8,410.

Sunderland, Dur.—Twenty-six terrace houses near Percy Terrace, for B.C. H. C. Bishop, borough architect: Direct Labour.

Swindon, Wilts.—(a) Sixty-three traditional dwellings and (b) 85 traditional dwellings and 12 garages at Park North neighbourhood, for B.C.: (a) Clark Bros., Oxford Road, Swindon, £113,787, and (b) Wallis and Co., Wootton Bassett, £152,172.

Tonbridge, Kent.—Following, for R.D.C.: (1) Five blocks of four one-bedroom flats at The Grove, Pembury; (2) two blocks of four one-bedroom flats and one pair of three-bedroom houses at Riding Park, Hildenborough; (3) one block of four one-bedroom flats and two pairs of three-bedroom houses at Twyford Road, Hadlow. H. W. Clark, engineer and surveyor: (1) William Ellis (Etchingham), Ltd., Etchingham, Sussex; (2) and (3) Perryman (Building Contractors), Ltd., 47 High Street, Tonbridge. Work commencing June 1.

West Bromwich, Staffs.—Sixty-six old people's flats and three warden's flats at Stone Cross, Yew Tree estate and Hateley Heath estate, for B.C.: Direct Labour, £80,775 (recommended).

West Hartlepool, Dur.—Sixteen old people's flats on Owton Manor estate, for B.C.: G. M. Pearson and Son, Front Street, Hetton, Co. Durham, £12,822.

Weymouth, Dorset.—Five houses at Southill (for key workers of C. and J. Clark, Ltd.), for B.C.: George Calverley and Sons (Contractors), Ltd., £2,450 each (recommended).

Worcester.—Eighteen traditional dwellings at the St. Catherine's Vale redevelopment area, for City Council: Lumms and Game, Ltd., 18 Henwick Road, Worcester, £24,926 (recommended, subject to Ministry approval).

MATERIALS AND SUPPLIES

Fleetwood, Lancs.—Supply of granite chippings, for B.C.: Penmaenmawr and Welsh Granite Co., Ltd., Picton Road, Liverpool, 15, 35s. 6d. per ton.

Kidderminster, Worcs.—Supply of following for 78 units of accommodation, for B.C.: Flooring—Neuchatel Asphalt, Birmingham, £1,762; ironmongery—Locabie and Wilkinson, Tipton, £816; sanitary ware—A. D. Foulkes, Birmingham, £2,321; tiled fire surround—Thompson and Parkes, Kidderminster, £1,319 (recommended).

Leeds.—Supply of following, for City Council: 2in. black concrete flags, 12s. 6d. per super. yd., and 2in. white concrete flags, 12s. per super. yd.: Shap Granite Co., Ltd., Shap, Penrith, Cumberland; paving bricks—Accrington Brick and Tile Co., Ltd., Nori Works, Accrington, £13 15s. per 1,000 (both recommended).

Luton, Beds.—Supply of metal windows for science block at Luton High School, for E.C.: Williams and Watson, Ltd., Bootle, £2,879.

Luton, Beds.—Supply of metal windows for Challney Secondary School extensions, for B.C.: Ideal Casements (Reading), Ltd., Shepherds House Lane, Earley, Reading, £845.

Newcastle upon Tyne.—Supply of road materials for year commencing April 1, 1960, for City Council: Tarmacadam—Northumberland Whinstone Co., Ltd., Newcastle, and Mark Appleby, Ltd., Embleton, esti-

mated cost £19,294 each; tar—Northern Gas Board, Newcastle, estimated cost £2,443; bituminous road emulsion—Lion Emulsions, Ltd., Newcastle, estimated cost £2,508; concrete kerb (granite aggregate)—Hullands Products, Ltd., Derby, estimated cost £1,210; concrete kerb (whinstone aggregate)—Albert Mason and Co., Newcastle, estimated cost £1,254; concrete flags (whinstone aggregate)—Albert Mason and Co., Newcastle and Northumberland Whinstone Co., Ltd., Newcastle, estimated cost £9,916 each (all recommended).

Plymouth.—Supply of the following, for City Council: 26 Era fires for Southway estate and 60 for Ordnance Street, Devonport—The Metal Agencies Co., Avon Works, Winterstoke Road, Bristol, 3, £1,248; sanitary fittings for 26 houses at Southway estate, and for 60 flats at Ordnance Street, Devonport—The Iron and Marble Co., Ltd., 33 Victoria Street, Bristol, 1, £1,236 and £2,892, respectively (recommended).

Smethwick, Staffs.—Supply of a further 1,000 dustbins, for B.C.: Co-operative Wholesale Society, Ltd., Dudley, £1 9s. 4½d. each (recommended).

West Bromwich, Staffs.—Supply of unit frame scaffolding, for B.C.: Kwikform, Ltd., 192 Waterloo Road, Birmingham, 25, £957 (recommended).

MISCELLANEOUS

Maidstone, Kent.—Supply and installation of following at the refuse destructor, for B.C.: An electromagnet with transformer rectifier—Electromagnets, Ltd., 1 Bond Street, Birmingham, 19, £1,340; conveyor belt—J. Thompson Industrial Constructors, Ltd., 2 Prince's Row, London, S.W.1, £950 (recommended).

PLANT AND MECHANICAL TRANSPORT

Bradford, Yorks.—Supply of following, for City Council: A. Massey-Ferguson F.E. 35 standard diesel tractor and one Commer 14-ton lorry—W. Mountain and Son, Ltd., Morley, £629, and Thornton Engineering Co., Ltd., Bradford, £668, respectively; Wrigley fork lift truck—A. G. Wilson, Ltd., Regent Street, Leeds, 2, £958.

Chelmsford, Essex.—Supply of one refuse collection vehicle, for B.C.: Shelvoke and Drewry, Ltd., Letchworth, Herts., £2,905 (recommended).

Dagenham, Essex.—Supply of (a) two freighters, and (b) two side loaders, for B.C.: (a) Shelvoke and Drewry, Ltd., Letchworth, Herts., £5,166; (b) Dennis Bros., Ltd., Guildford, Surrey, £3,686 (recommended).

Doncaster, Yorks.—Supply of following, for B.C.: Ford Thames 12-seater and 30cwt. Fordson Thames body, with Spenborough E.P.42 tipping gear—E. and G. Charlesworth, Ltd., 24 Bennetthorpe, Doncaster, £578 and £760, respectively; tractor and grass-cutting equipment—Massey-Ferguson (Great Britain), Ltd., Coventry, £824. Allowances for old machines included.

Downham, Norfolk.—Supply of a new refuse lorry, for U.D.C.: Jim Russell, Downham Market, Norfolk, £1,250.

Ealing, Middx.—Supply of two Thames 15cwt. pick-ups, for B.C.: Campbell Symonds, Ltd., Forty Avenue, Wembley, £948 (recommended).

Epsom and Ewell, Surrey.—Supply of following for B.C.: One standard model P.30 Simon hydraulic platform, and one smaller standard model L.25, both with power take off drive and insulated working cage—Simon Engineering (Midlands), Ltd., Paragon Works, Queens Square, Dudley, Worcs., £1,285 and £765, respectively; Lewin Sweepmaster mechanical sweeping machine—Lewin Road Sweepers, Ltd., 25 Hanover Square, London, W.1 (recommended).

Grantham, Lincs.—Supply of a Commer lorry, for B.C.: Campion Depot, Guildhall Street, Grantham, £918 (recommended).

Leeds.—Supply of following, for City Council: Bulk gritter bodies, 2/7-ton, 2/3-ton (front spinner), 2/3-ton (rear spinner), and 1/2-ton—Atkinson's Agricultural Appliances, Ltd., Clitheroe, Lancs., £1,110, £880, £860 and £400, respectively; hydraulic tin press—Heenan and Froude, Ltd., Worcester, £2,893.

Luton, Beds.—Supply of a diesel road roller with hydraulically operated scarifier for breaking-up road surfaces, for B.C.: Aveling-Barford, Ltd., Grantham, Lincs., £3,054.

Manchester.—Supply of following, for City Council: Two 7 cu. yd. semi-dump trucks, fitted with two-speed axles and hydraulic dampers, and one Karrier/Yorkshire gully and cesspool emptier—Rootes, Ltd., Manchester; one International crawler tractor, fitted with Drott Skid-Shovel—R. Cripps and Co., Ltd., Salford; three diesel crawler

tractors, fitted with deep digging blade angledozers—David Brown Construction Equipment, Ltd., Huddersfield; one 2-ton power operated platform lifting truck—C. and A. Plant Services, Ltd., Manchester; five Morris commercial diesel-engined 30cwt. chassis, and one Morris commercial diesel-engined 20cwt. chassis—Kennings, Ltd., Manchester; Track Marshall crawler tractor complete with angledozzer, with an obsolete Challenger I crawler tractor in part exchange—Thomas Ward, Ltd., Sheffield; two Ford Thames 4-ton capacity automatic tippers with two 4-ton hand tipping lorries in part exchange—H. J. Quick, Manchester; turntable ladder—Merryweather and Sons, Ltd., Greenwich; wheeled escape—John Morris and Sons, Ltd., Salford; two trailer pumps—D. A. Mullard and Co., Ltd., Edgeware, London; heavy-duty forklift, with detachable jib crane attachment, for use at Manchester Airport—Shelvoke and Drewry, Ltd., Letchworth, Herts.

Mitcham, Surrey.—Supply of 7 cu. yd. side-loading Karrier diesel engined refuse collection vehicle, for B.C.: Allen Bros. (Mitcham), Ltd., 360 London Road, Mitcham, £1,006 (recommended); Phoenix Motor Co., Ltd., £1,006; Croydon Auto Co., Ltd., £1,088; Hubert Dees, Ltd., £1,116; Stewart and Arden, £1,152.

Oxford.—Supply of following, for City Council: One Austin 2-ton lorry—Hartwell's Garages, Ltd., Park End Street, Oxford, £882 one type B Karrier Gamecock tender—Carmichael and Sons (Worcester), Ltd., The Butts, Worcester, £3,265; one Advance diesel 10-ton road roller and accessories—Wallis and Stevens, Ltd., North Hants Ironworks, Basingstoke, £3,085; two 3-ton Morris Commercial tipping lorries fitted with Eagle hydraulic end tipping bodies—Morris Garages, Ltd., St. Aldates, Oxford, £1,956; one Fordson tractor and muleadozer equipment for use on the controlled refuse tips—Curtis and Horn, Ltd., Park End Street, Oxford, £1,281; one gully cesspool emptying vehicle complete with cesspit valves and sprinkling equipment—Shelvoke and Drewry, Ltd., Letchworth, Herts., £2,798; one Karrier dual tip refuse collection vehicle with bin lift attachment—G. H. Hartwell, Ltd., Abingdon Road, Oxford, £2,711 (all recommended).

Plymouth.—Supply of the following, for City Council: One Commer 30cwt. van—Watkins and Roseveare Tractors, Ltd., Ivybridge, Devon, £783; three 7-ton tippers—Allens of Plymouth, Ltd., 105 Tavistock Road, Plymouth, £1,245 each; three Karrier Bantam 2-ton tippers—M. Thomas (Motors), Ltd., 58-64 Embankment Road, Plymouth, £889 each; two 1,000-gallon gully/cess pit emptiers—Dennis Bros., Ltd., Guildford, Surrey, £2,704, and M. Thomas (Motors), Ltd., £2,435, respectively; three 18-25 cu. yd. refuse collection vehicles—Dennis Bros., Ltd., one at £3,035, and Shelvoke and Drewry, Ltd., Letchworth Herts., two at £2,898 each; three 5cwt. vans—A. C. Turner, Ltd., Derrys Cross, Plymouth, £332 each; one tractor and trailer—W. Mumford, Ltd., Abbey Garage, St. Andrew Street, Plymouth, £876; one caterpillar-type loading shovel—Bowmaker Plant, Ltd., Staffs., £5,359 (all recommended).

Smethwick, Staffs.—Supply of a Massey-Ferguson 702 tractor and 7-ton loader and equipment, for B.C.: Abelson and Co. (Engineers), Ltd., 2297 Coventry Road, Birmingham, 26, £1,088 (recommended).

Sunderland, Dur.—Supply and installation of salvage handling plant, and dismantling and re-erection of existing plant, where needed, for B.C.: O. Kay Engineering Services, Leicester, £8,908.

Sutton and Cheam, Surrey.—Supply of a Twin/Sixty-five diesel dumper truck, for B.C.: C. Johnson (Machinery), Ltd., 38 Lower Richmond Road, London, S.W.14, £870 (recommended).

Swindon, Wilts.—Supply of three 8/12 cu. yd. Dennis Heron/Gibson Pendulum rear loading compression-type body refuse collection vehicles, for B.C.: Skurrys, Ltd., 30-32 High Street, Swindon, £7,311 (recommended).

Watford, Herts.—One 12-14 cu. yd. fore-and-aft tipping refuse collection vehicle, for B.C.: Shelvoke and Drewry, Ltd., Letchworth, Herts., £2,575 (recommended).

West Bromwich, Staffs.—Supply of an s. and d. W-type 25 cu. yd. fore-and-aft tipping freighter, with s.d. power press and Perkins P6 diesel engine, for B.C.: Shelvoke and Drewry, Ltd., Letchworth, Herts., £2,922 (recommended).

Worcester.—Supply of a Chasides Loadmaster 550 loading shovel, for City Council: R. Tildesley, Ltd., Willenhall, Staffs., £1,511 (recommended).

PLAYING FIELDS, PARKS, ETC.

Chelmsford, Essex.—Provision of a cinder running track at Melbourne Park Playing Field, for B.C.: Maxwell M. Hart (London), Ltd., 248 Beulah Hill, London, S.E.19, £10,403 (recommended).

Dagenham, Essex.—Second stage of improvements at Central Park, for B.C.: Direct Labour (recommended). Estimated cost £5,510.

Oxford.—Turfing, planting and landscaping at North Oxford A site, for City Council: F. J. Cook, Alberta Duns Tew, Steeple Ashton, Oxford, £1,048 (recommended).

Smethwick, Staffs.—Second stage of the laying out of Hadley playing fields, for B.C.: Midland Gardens, Ltd., Exchange Street, Wolverhampton, £12,458 (recommended).

Sutton and Cheam, Surrey.—Re-making and re-fencing of two tennis courts at Collingwood Recreation Ground, for B.C.: W. H. Gaze and Sons, Ltd., The Gazeway, Roehampton Vale, London, S.W.15, £812 (recommended).

West Bromwich, Staffs.—Levelling the existing reclaimed portion of Stone Cross tip by laying ashes and spreading top soil, for B.C.: K. E. Millard and Co., Ltd., New Wolverhampton Road, Langley, Oldbury, £1,646 (recommended).

RAILWAY ENGINEERING

British Railways.—Following contracts placed: London Midland Region:

Tarspraying and road repairs programme, 1960, in Northampton and Walsall districts—Taroards, Ltd., 1-22 Old Bailey, London, E.C.4.

Tarspraying and road repairs programme, 1960, in Derby North district—Paviors Construction Co., 17 Saltaire Road, Shipley.

Tarspraying and road repairs programme, 1960, in London district—H. V. Smith and Co., Ltd., 24 Ashley Place, Westminster, London, S.W.1.

Tarspraying and road repairs programme, 1960, in Lancaster district—Johnson Bros. (Aylesford), Ltd., Vale Road, Tonbridge, Kent.

Reconstruction of bridge 37 on Whitchurch Tattenhall line to accommodate widening of the east of Birmingham/Birkenhead trunk road A.41 for the M.T.—Leonard Fairclough, Ltd., 3 Chapel Street, Adlington, Lancs.

Supply, erection and removal of temporary foot and luggage bridge with ramps and footbridge with steps in connection with the reconstruction of Stafford Pickford Street, Birmingham, station—Scaffolding (Great Britain), Ltd., 28 North-Eastern Region:

Supply and installation of electric cabling and fittings at English Street Goods Depot, Hull—W. Fairburn, Ltd., Hull.

Renewal of the roof of the repair shop at Shildon Wagon Works—Wright Anderson and Co., Ltd., Gateshead.

Supply of a vertical milling machine for York Carriage Works—Midgley and Sutcliffe, Ltd., Leeds.

Supply and erect a 20-ton semi-pit-type electric traverser at the Carriage and Wagon Works, Walkergate—Cowans, Sheldon and Co., Ltd., Carlisle.

Supply and installation of a central heating system at Gateshead Motive Power Depot—Brightside Heating and Engineering Co., Ltd., Newcastle.

Supply of a fork lift truck for the stores department at Walkergate—I.T.D., Ltd., Birmingham.

Improvements to ticket collectors cabins and barriers at Bradford Exchange Station—Jarrat Steel, Acomb, York.

Supply and erection of post and tube fencing on the lineside at Carcroft and South Elmsall—F. and J. Watkinson, Bradford.

Install piling for the foundations of the traffic manager's new office block at Paragon Station, Hull—Holmpress Piles, Ltd., Hull.

Supply a quantity of concrete deck units for short-span bridges—Pierhead, Ltd., Liverpool.

Supply and installation of a heating and hot water system in the office of the district outdoor machinery engineer, Kidacre Street, Leeds—H. Morfit and Sons, Ltd., Leeds.

Supply a new travelling trolley for the chief civil engineer's department's Morris tracklayer—Lifting Gear Products (Eng.), Ltd., Sheffield.

Erection of a power house at Tweedmouth—Berwick Building Co., Ltd., Berwick.

Alterations and improvements to the booking and inquiry office and general waiting room at Ilkley Station—F. and J. Watkinson, Bradford.

Southern Region:

Wimborne and Ringwood: Storage accommodation—Geo. Shears and Sons, Ltd., Bournemouth, Hants.

Hythe (Frost Lane): Construction of new signal box—Geo. Shears and Sons, Ltd., Bournemouth, Hants.

West St. Leonards: Station renovations—W. G. Beaumont and Son, London, E.3.

Waterloo Station: Repairs to asphalt surfaces—Durable Asphalt Co., Ltd., London, N.1.

Clapham Junction: Renovations to carriage cleaning shed—Maurice Hill, Ltd., Horndean, Hants.

Wimbledon: Heating installation to workshops—A. Smith and Sons (Heating), Ltd., Woking, Surrey.

St. Denys: Cleaning and painting of bridge—Maurice Hill, Ltd., Horndean, Hants.

Waterloo Station: Repairs to roof glazing—Macartney and Sons, London, S.W.9.

Extension of electrification, Dover Marine: New berthing facilities—The Demolition and Construction Co., Ltd., London, S.W.1.

Hastings: New telephone exchange—Walter Llewellyn and Sons, Ltd., Eastbourne, Sussex.

Lymington Pier Station: Construction of new dolphins and renewal of piling—Campbell and McGill, Ltd., Winchester, Hants.

Waterloo Station: Roof renovations—C. and T. Painters, Ltd., London, N.W.10. Victoria Station (Eastern Section): Renewal of roofing—Robertson Thain, Ltd., Wirral, Cheshire.

Ashford District: Resurfacing and surface dressing of roads, footpaths and station platforms—Johnson Bros. (Aylesford), Ltd., Tonbridge, Kent.

Cannon Street Borough Market Bridge: Supply of steel and ironwork and waterproofing of deck: The Fairfield Shipbuilding and Engineering Co., Ltd., Chepstow, Mon.

Extension of electrification, Folkestone Junction: Construction of steel gantries over berthing sidings—John Laing and Son, Ltd., London, N.W.7.

Eastleigh Engineering District: Resurfacing and surface dressing of roads, footpaths and platforms—Limmer and Trinidad Lake Asphalt Co., Ltd., Eastleigh, Hants.

Exeter Engineering District: Resurfacing and surface dressing of roads, footpaths and platforms—The General Asphalt Co., Ltd., London, N.W.5.

Gateshead, Dur.—Construction of the new marshalling yard at Lamesley, near Gateshead-on-Tyne, involving the construction of four rail over-road bridges carried on reinforced concrete piles, for British Transport Commission: Mitchell Construction Co., Ltd., Peterborough.

ROADS, BRIDGES AND SITE WORKS

Argyllshire.—Reconstruction of four miles of the Cairndow-Strachur-Toward road (A.815), contract A.9B, for Scottish Home Department: James Miller and Partners, 18 Georges Street, Edinburgh, 2. Estimated cost £200,000.

Basildon, Essex.—Erection of a precast, prestressed concrete vehicular bridge and approach works at Wickford Memorial Park and the construction of approx. 80 lin. yd. of cycle track and footway, for U.D.C.: R. W. Hill and Co., Ltd., Beach's Drive, Chelmsford, £8,158.

Beddington and Wallington, Surrey.—Annual contracts, for B.C.: (a) Supply and laying of asphalt surfacing; (b) bulk supplies of asphalt and asphalt and tarmacadam footway reconstruction—William F. Rees, Ltd., 54 Victoria Street, London, S.W.1; reinstatement of trenches in (c) slab footway and concrete garage crossing; (d) in tarmacadam footway, in garage crossings and across carriageways—Henry Hemmings, Ltd., 129 Brigstock Road, Thornton Heath; (e) plastic white lines and road markings—Constructex, Ltd., Oyster Lane, Byfleet.

Bedfordshire.—Widening and realignment of the Ipswich-Weedon trunk road, route A.428, between Priory Farm and Turvey Railway Bridge, a length of approximately 800 yd., for C.C. The works entail clearing site, surface water drainage, kerbing and the construction of a 24 ft. wide carriageway with dry lean concrete and gravel asphalt base and granite asphalt surfacing: Stirton Partners, Ltd., 871 High Road, Finchley, London, N.12, £25,580. Work commencing June 1.

Belfast.—Following, for City Council: Resurfacing of playgrounds, etc., in bituminous macadam and repairing flagged quadrangles, at various city schools: John McQuillan (Contracts), Ltd., Dunmurry.

Formation of turning space for vehicles at Annadale Grammar School, Annadale Embankment: Irish Roads (Belfast), Ltd., 23 Sydenham Road, Belfast. Work commencing June.

Chester.—Construction of road works at Park Way, Saughall, for R.D.C.: W. E. Parsons

and Co., Ltd., Victoria Road, Ellesmere Port, Cheshire, £2,194 (accepted); W. H. Roberts and Co., Ltd., £3,019; William Bradshaw, Ltd., £2,389; J. W. Flatter, Ltd., £2,340; Percy Bilton, Ltd., £2,918; L. B. Warner, £2,780.

Corby, Northants.—Construction of macadam carriageways (approx. 1,100 sq. yd.), paved footways (360 sq. yd.), a small car park, drainage and ancillary works, at Shire Lodge cemetery, for U.D.C. D. W. Greaves, engineer and surveyor: C. and W. Butteriss, Kibworth, near Leicester, £4,776. Work about to commence.

Cricklade and Wootton Bassett, Wilts.—Following at Wootton Bassett housing estate, for R.D.C.: Setting back 900 lin. yd. of concrete kerb; laying of 1,110 sq. yd. of lean-mix concrete foundation and tarmacadam carriageway surfacing: 830 sq. yd. of tarmacadam footpath; 1,720 sq. yd. of tar-spraying; 3,750 sq. yd. of cold asphalt carriageway surfacing, and ancillary works. J. C. Grindley, surveyor: Asphalt Specialists, Ltd., Specialists House, St. Philips, Bristol, 2, £5,163.

Ealing, Middx.—Resurfacing of playground at Walford Secondary School, for B.C.: W. H. Gaze and Sons, Ltd., The Gazeway, Roehampton Vale, London, S.W.15, £955 (recommended).

Gateshead, Dur.—Construction of two bridges for marshalling yard at Lamesley, for British Railways: Dowsett Engineering Construction, Ltd., Durham Road, Low Fell, Gateshead.

Haltemprice, Yorks.—Construction of approximately 540 sq. yd. of tarmac roadway and laying of approximately 90 yd. of sewer at Manor House industrial estate, Anlaby, for U.D.C. R. B. Heseltine, engineer and surveyor: G. Allenby, Hull.

Hammersmith.—Resurfacing of Shepherds Bush Green, from Shepherds Bush Road to Holland Road, for B.C.: Val de Travers Asphalt Paving Co., Ltd., 21 Old Bailey, London, E.C.4, £9,401 (recommended); Limmer and Trinidad Lake Asphalt Co., Ltd., £9,621; Mowlem Paving Co., Ltd., £9,900; Constable Hart and Co., Ltd., £10,128; H. V. Smith and Co., Ltd., £10,159; Highways Construction, Ltd., £10,542; Neuchatel Asphalt (Contracting), Ltd., £10,840; W. and J. Glossop, Ltd., £11,181; George Wimpey and Co., Ltd., £12,913.

Havant and Waterloo, Hants.—Making-up Hart Plain Avenue (part), for U.D.C., comprising the excavation to formation level and provision of 2,500 sq. yd. of 6 in. reinforced concrete carriageway, the provision and laying of 770 lin. yd. of kerb, the construction of 1,680 sq. yd. of flexible footway, 610 sq. yd. of verges, 275 lin. yd. of 9 in. diameter surface water sewer, 120 lin. yd. of 9 in. diameter salt glazed stoneware soil sewer, 196 lin. yd. of 4 in. diameter house connections and all ancillary works. R. R. Hole, engineer and surveyor: Warings (Contractors), Ltd., London Road, Hilsea, Portsmouth.

Hereford.—Following works, for City Council: Construction of roads and sewers at Newton Farm estate, section 5—Hereford Resurfacing Co., Ltd., Janbeth, Hazel Grove, Hereford, £69,949 (recommended, subject to Ministry approval).

Construction of entrance road to the crematorium from Westfaling Street, and road improvement works at junction of Lichfield Avenue, Hampton Park Road and Old Eign Hill—Asphalt and Public Works, Ltd., 36 The Tything, Worcester, £6,748 and £1,993, respectively (recommended).

Hertfordshire.—Construction of 7½-mile motorway to enable traffic to by-pass Stevenage and Hertfordshire villages on the Great North Road, A.1, for C.C. C. H. folliott, county surveyor: Martin Cowley, Ltd., 112 Jermyn Street, London, S.W.1, £1,787,803. Work to commence this month.

Heston and Isleworth, Middx.—Construction of footpaths at Shrewsbury Walk, South Street, Isleworth, for B.C.: John Sugre and Sons, Ltd., 194 Kilburn High Road, London, N.W.6, £2,949 (recommended, subject to Ministry approval).

Leamington Spa, War.—Following works at Lillington, stage III, for B.C.: Roads and sewers—David Thomas and Hill, 1 Chapel Street, Leamington Spa, £16,768; footpaths and grassed areas—Cambridge Roads Constructions, Ltd., 14-26 Henrietta Street, Coventry, £3,869 (recommended).

Leeds.—Following works, for City Council: Private street works—West Farm Avenue—Thorp of Leeds, Ltd., 52 Gledhow Wood Grove, Leeds, 8, £1,753; Queensthorpe Rise—Dalton and Higgins, Canal Wharf, Leeds, 11, £960; improvement works, Butcher Hill (part)—Hadspaltic Construction Co., Ltd., Dean Avenue, Leeds, 8, £12,104.

Leicester.—Construction of footways, verges, etc., on the county portion of the Eyres Monsell estate, for City Council: South Lincs. Tarmacadam Construction Co., Ltd., 47 Fleet Street, Holbeach, Lincs., £13,889 (recommended).

Lichfield, Staffs.—Improvements to Brownsfields Road, for the City Council. D. Oglesby, city engineer and surveyor: Asphalt and Public Works, Ltd., 36 The Tything, Worcester. Work about to commence.

Lisburn, Antrim.—Widening, realignment and reconstruction of a portion of Warren Gardens (Longstone Lane), for U.D.C. A. Webb, engineer: P. J. Walls and Bros. Ltd., Saintfield Road, Belfast, £12,992 (accepted); James Ross and Son (Contractors), Ltd., £12,972; John McQuillan (Contracts), Ltd., £14,844; Unit Construction Co., Ltd., £14,950; James McMullan and Co., Ltd., £15,446; W. M. Larmour, £16,204; Farrans, Ltd., £17,041; B. R. Laffin, £17,856.

Liverpool.—Resurfacing roadway across the dam at Lake Vyrnwy, for City Council: John Lloyd and Son, Garreg Quarry, Buttington, near Welshpool, Monts., £1,180 (recommended).

London.—Layout of the City of London Cemetery extension, for City Corporation: Mowlem (Civil Engineering), Ltd., 91 Ebury Bridge Road, London, S.E.1, £13,034 (recommended); Willmont Bros., Ltd., £14,192; Fitzpatrick and Son (Contractors), Ltd., £14,540; W. and C. French, Ltd., £15,277; Samuel Williams and Son, Ltd., £15,864; Howard Farrow, Ltd., £16,381; Chas. S. Foster and Son, Ltd., £17,322.

Luton, Beds.—Following works, for B.C.: Construction of footways and ancillary works at Lewsey estate—G. R. Bunyan (Luton), Ltd., £20,477 (subject to Ministry approval). Making-up of Marriott Road, Lucerne Way and Fallowfield (part)—C. H. Linton, Ltd., 80 Victoria Street, St. Albans, Herts., £983, £1,821 and £1,305, respectively.

Manchester.—Following works, for City Council: Road works off John's Place at Thornorton Street, Collyhurst housing site—Direct Labour; private street works in Beccles Road, Baguley—W. Snape and Sons, Ltd., Clifton House, Clifton Road, Eccles; supply and erection of a footbridge, stairway and supporting trestles at the Watson Street Municipal Car Park—F. A. Morris and Co., Ltd., Transport House, The Crescent, Manchester, 5.

Mexborough, Yorks.—Construction of a four-span steel girder road bridge with concrete piers and abutments to carry the Mexborough/Marr County Road over a diversion of the River Dearne at Pasture Road, for the Yorkshire Ouse River Board. Eric W. Wells, engineer: Yorkshire Hennebique Con-

tracting Co., Ltd., York, £30,029. Work to commence shortly.

Mitcham, Surrey.—Making-up of Raleigh Gardens from London Road to 9 Raleigh Gardens, for B.C.: W. H. Gaze and Sons, Ltd., The Gazeway, Roehampton Vale, London, S.W.15, £2,131 (recommended); Home Counties Contracting Co., Ltd., £2,369; Austen Shrivels, Ltd., £2,434; W. and J. Glossop, Ltd., £2,497; William F. Rees, Ltd., £2,502; Allmacadams, Ltd., £2,862.

Nottinghamshire.—Construction of two prestressed concrete bridges, spans 25ft. 9in. and 61in. 7in., over Bessel Lane and the River Erewash, respectively, and also a steel three-span girder bridge over Toton Sidings, side spans 92ft. 6in. and varying centre span 63ft. 1in. to 74ft. 7in., on Nottingham-Derby trunk road, A.52, Sandiacre Stapleford By-pass, for C.C. R. A. Kidd, county surveyor: Gilbert Ash, Ltd., 2 Stanhope Gate, London, W.1, £213,777.

Perth and Kinross.—Realignment and reconstruction of part of the Glasgow-Fort William-Inverness trunk road, between Crianlarich and Tyndrum, for Scottish Home Department: James Anderson and King, Ltd., 21 Old Castle Road, Glasgow, S.4, £138,000.

Salisbury, Wilts.—Widening and reconstruction of part of Mill Road in 9in. pitching with bituminous macadam base course and fine cold asphalt wearing course, together with the necessary slabbled footpaths, for City Council. The contract also includes the widening of Harcourt Bridge: Northcotts of Exeter, Ltd., Venny Bridge, Whipton, Exeter, £11,949 (accepted); Roads Reconstruction (1934), Ltd., £12,673. Work about to commence.

Sheffield.—Following works, for City Council: Road and sewer works for provision of a link road and footpath between Herdings and Rolleston Units of the Gleadless Valley estate—Direct Labour (recommended, subject to Ministry approval). Estimated cost £38,857.

Diversion of a portion of Edge Lane, Birley Edge, to link-up with an estate road to be provided in the Foxhill housing estate—Direct Labour (recommended). Estimated cost £1,000.

Sunbury-on-Thames, Surrey.—Improvement of Gaston Bridge Road (A.244) at the Mushroom Farm with two-course hot rolled gravel asphalt carriageway, concrete kerbs and channels, bitumen gravel macadam footpaths, grass verges, concrete surface water drainage and ancillary works, for U.D.C.: Waywarden's, Ltd., Waywarden House, 215 Forest Road, London, E.17, £5,836.

Sunderland, Dur.—Site preparation works for houses in Percy Terrace, for B.C.: Direct Labour, £4,818.

Swindon, Wilts.—Completion works on stage 5 of the Park South neighbourhood development, for B.C.: Direct Labour (recommended). Estimated cost £17,257.

Truro, Corn.—Construction of a car park, kerbing, and construction of footpath at Lemon Quay, for City Council. S. John O'Farrell, city surveyor: A. H. Dingle, Ltd., Seton, Rudruth, £2,847 (accepted); W. and J. Glossop, Ltd., £3,414; E. Thomas and Co., Ltd., £3,425; Trethowan (Builders), Ltd., £3,533; G. E. Wallis and Sons, Ltd., £4,144; Northcotts of Exeter, Ltd., £4,576.

Tynemouth, Northumb.—Following, for B.C.: Surface dressing of certain carriageways within the county borough, approximate area 100,000 sq. yd.: E. J. Jobbling-Purser and Co., Ltd., Scotswood Road, Newcastle upon Tyne, 4, £4,200.

Hot rolled asphalt carpeting (machine laid) of a number of roads in the Borough, of a total area of 12,000 sq. yd. (approximately): Limmer and Trinidad Asphalt Co., Ltd., 47 Blackett Street, Newcastle upon Tyne, 1, £7,399. Work commencing June.

Watford, Herts.—Completion of certain footways, crossings and kerbing at Merriden estate, for B.C.: A. C. Baker and Son, Ltd., Greenford. Estimated cost £20,000 (recommended).

SEWERAGE, SEWAGE AND REFUSE DISPOSAL

Barrow-in-Furness, Lancs.—Following works, for B.C.: Construction of storm water relief sewers—A. Brett (Contractors), Ltd., Station Buildings, Grimsargh, Preston, £21,041; relining and reconstruction of main outfall sewer, from Frederick Street pumping station to Pulp Works Road—Aerocem (Scotland), Ltd., 21 Blythwood Square, Glasgow, C.2, £8,300 (recommended, subject to Ministry approval).

Basford, Notts.—Construction of the Cossall drainage scheme, for R.D.C., comprising the erection of automatic electric sewage pumping station with underground sump and pump room; conversion of existing tanks into stormwater tanks; supplying and laying of 4in. spun-iron pumping main, involving river and canal crossings; supplying and laying of 9in. and 6in. iron and concrete pipe sewers, with manholes, etc., involving crossing under main railway tracks. Eric Kirk, joint engineer and surveyor: G. S. Taylor, Babbington Hall, Strelley, Nottingham, £23,438. Work about to commence.

Bradford, Yorks.—Construction of a 9in. dia. sewer in North Cliffe Lane, for City Council: Direct Labour, £1,500 (recommended).

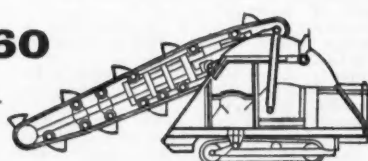
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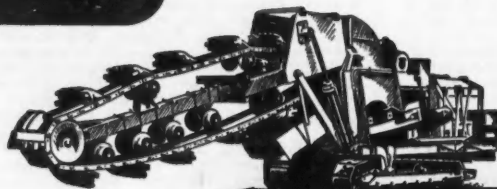
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14in. to 30in.
wide.
8ft. 6in. max.
depth.



12-21

12in. to 21in.
wide.
6ft. max. depth.



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Caterham and Warlingham, Surrey.—Construction of a surface water sewer in Whyteleafe Recreation Ground, for U.D.C.: Farnborough Civil Engineering and Construction Co., Briargate, Ottershaw, Chertsey, Surrey, £3,638 (accepted, subject to Ministry approval); Austin Shrives, Ltd., £4,036; Eagle Construction, Ltd., £4,498; Mears Bros. (Contractors), Ltd., £4,649; P. Lavelle, Ltd., £4,237; Surface Maintenance Services, £4,821; Robert Savill, Ltd., £4,277; J. E. Billinge and Co., Ltd., £4,545.

Corby, Northants.—Construction of sewerage works in Hood Court, for U.D.C.: D. W. Greaves, engineer and surveyor; K. Church, Isham, near Kettering, £1,702. Work about to commence.

Derwent, Yorks.—Laying of about 2,900 lin. yd. of 12in., 9in. and 6in. dia. reinforced concrete pipe sewers and manholes, together with house connections; laying of about 470 lin. yd. of 5in. dia. asbestos-cement pumping main and the construction of a pumping station and sewage disposal works at Dunnington, near York, for R.D.C. Fairbank and Son, consulting engineers, The Gables, 62a Bootham, York; Sangwin, Ltd., Dansom Lane, Hull, £37,695.

Dorchester.—Construction of foul and surface water sewers and rising main, etc., at the southern area housing site, for B.C.: H. Mears (Building Contractors), Ltd., Cluney Place, Melcombe Bingham, Dorchester, £5,004 (recommended).

Dorking and Horley, Surrey.—Horley sewage disposal works extensions, contract 4, for R.D.C., comprising the construction of circular tanks in reinforced concrete, extensions and modifications to two existing pumping stations, and alterations to existing units, etc. G. B. Kershaw and Kaufman consulting engineers, 82 Victoria Street, Westminster, S.W.1; Bosworth and Wakefield, Ltd., Rugby.

Dunmow, Essex.—Construction of the Little Hallingbury sewerage and sewage disposal works, contract 17, for R.D.C.: J. D. and D. M. Watson, consulting engineers, 67 Tufton Street, Westminster; Concrete Piling, Ltd., 10 Westminster Palace Gardens, Victoria Street, Westminster, S.W.1, £25,530 (subject to Ministry approval).

Guisborough, Yorks.—Supply and laying of earthenware pipe sewers for the Lackenby and South Lackenby sewerage works, for U.D.C.: Balfour and Sons, consulting engineers, 145 Pilgrim Street, Newcastle upon Tyne; Ideal Builders (Redcar), Ltd., Broadway East, Redcar.

Havant and Waterloo, Hants.—Foul sewer—proposed old people's flats, Forest End, Waterlooville, for U.D.C., comprising the construction of approximately 278 lin. yd.

of 6in. diameter glazed stoneware foul sewer, 285 lin. yd. of 9in. diameter glazed stoneware foul sewer, manholes and other appurtenant works. R. R. Hole, engineer and surveyor, Regnum Civil Engineering Contractors, Birdham, near Chichester, Sussex.

Hertford.—Works of sewerage in the parish of Stapleford, for R.D.C.: Farmiloe and McVie, Ltd., 10 High Street, Welwyn, Herts.

Huddersfield, Yorks.—Construction of two tanks, 130ft. in dia., and a pump-house in a cofferdam, for the Heaton Lodge sewage disposal works, for B.C.: R. T. Haley and Co., Ltd., Hunsworth, Cleckheaton, £650,000.

London.—Diverting the sewer in Robin Hood Court from the multi-storey car park site, Shoe Lane, for City Corporation; D. R. Paterson, Ltd., 33 Granville Road, London, N.W.2, £5,279 (recommended); Mowlem (Civil Engineering), Ltd., £5,325; William F. Rees, Ltd., £5,443; Howard Farrow, Ltd., £5,553; W. and C. French, Ltd., £5,591.

Luton, Beds.—Minor capital works at the sewage treatment works, for B.C.: H. C. James, Ltd., 183 High Town Road, Luton, £12,788.

Middlesex.—Construction of sewage disposal plant at Penshurst Residential Special School, Swaylands, for C.C.: Cyril Woolley, Ltd., £2,781.

Middlesex.—Supply and installation of flow measurement apparatus at Deepfams Works, for C.C.: George Kent, Ltd., 199 High Holborn, London, W.C.1, £3,353 (recommended).

Morley, Yorks.—Reconstruction of Dewsbury Road sewage disposal works, for B.C.: John H. Haiste and Partners, consulting engineers, 4 Queens Square, Leeds, 2; J. Wimpenny and Co., Spurn Point, Linthwaite, near Huddersfield (recommended, subject to Ministry approval). Estimated cost £355,500.

Oxford.—Piping in of stream between Pixey Place and St. Peter's Road, Wolvercote, for City Council—Direct Labour (recommended). Estimated cost £1,000.

St. Austell, Corn.—Construction of a sewage pumping station, 110yd. of 12in. cast-iron sea outfall and a short length of 18in. concrete sewer, for U.D.C.: H. G. King, engineer and surveyor; Richard Costain (Construction), Ltd., 4 Princess Place, Notte Street, Plymouth, £13,724.

Sedgley, Staffs.—Cotwallend-Catholic Lane foul sewerage, for U.D.C., comprising the construction of 3,380yd. 6in. foul sewer, including cast-iron pipes on piers and all necessary manholes. W. M. Jones, engineer and surveyor; Ballasts, Ltd., Bentley Lane, Walsall, £14,847.

Wandsworth.—Construction of a sewer in connection with phase 3 of William Willison estate, Putney, for B.C.: J. E. Billings and Co., Ltd., 54 Beddington Lane, Croydon, Surrey, £1,968 (accepted); Blair and Cramer, Ltd., £2,130; Coffey and Son, Ltd., £2,208; John Mowlem and Co., Ltd., £2,738; J. J. Curran, Ltd., £4,281.

STREET LIGHTING

Brentford and Chiswick, Middx.—Supply and erection of lighting units in district roads at Brentford, for B.C.: Machinery Installations, Ltd., 60a High Street, London, W.3, £12,232 (recommended); A.E.I. Lamp and Lighting Co., Ltd., £12,897; Atlas Lighting, Ltd., £13,034; Cohen Bros. (Electrical), Ltd., £13,149; Concrete Utilities, Ltd., £14,074; Engineering and Lighting Equipment Co., Ltd., £12,650; Erecon, Ltd., £12,967; Gallagher and O'Brien Enterprises, Ltd., £12,020; General Electric Co., Ltd., £13,956; Revo Electric Co., Ltd., £14,625; Associated Electrical Industries, Ltd., £13,673.

Ealing, Middx.—Street lighting in Western Avenue, for B.C.: Supply and erection of columns—Abacus Engineering, Ltd., Russell Chambers, King Street, Nottingham, £2,771; supply of lanterns—General Electric Co., Kemble House, Kean Street, London, W.C.2, £1,968 (recommended).

Hereford.—Installation of 28 group B lighting columns, in Barton Road, Breinton Road to Ryeland Street and Westfaling Street, from Whitehorse Street to Holmer Street, for City Council; Associated Electrical Industries, Ltd., 33 Grosvenor Place, London, S.W.1, £1,238 (recommended).

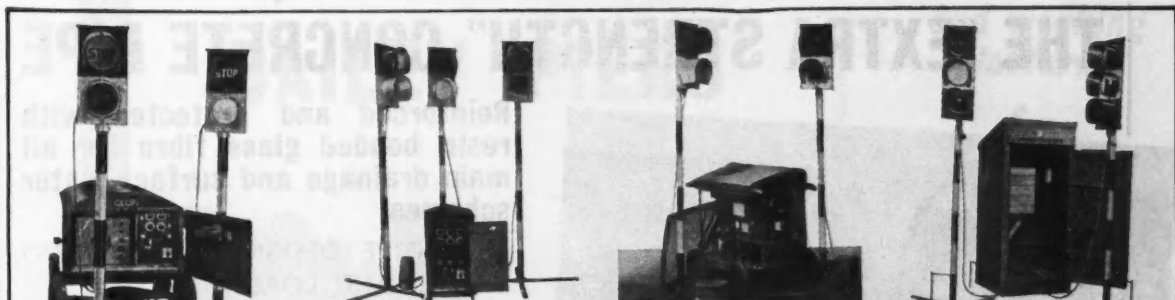
Heston and Isleworth, Middx.—Following works, for B.C.: Provision of street lighting at Shrewsbury Walk, South Street, Isleworth—General Electric Co., Ltd., Kemble House, Kean Street, London, W.C.2, £638 recommended, subject to Ministry approval.

Columns and brackets for improved street lighting in Whitton Road—A.E.I. Lamp and Lighting Co., Ltd., 132 Long Acre, London, W.C.2, £3,476 recommended.

Waltham Holy Cross, Essex.—Class A sodium lighting to part of Mott Street, for U.D.C.: G. Clarke, surveyor; Erecon, Ltd., Great Anwell, Ware, £7,588.

Watford, Herts.—Following works, for B.C.: Erection of approx. 200 lamp columns at Meriden estate—A. C. Baker and Son, Ltd., Greenford, £5 per column; lighting of the Market—L. J. Ive, Ltd., 7 Clarendon Road, Watford (recommended).

West Ham, Essex.—Street lighting, North Woolwich Road—supply and erection of



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LONDON · BARROW · BIRMINGHAM · CANTERBURY · EXETER · GLASGOW · LINCOLN · LIVERPOOL · MANCHESTER · NEWCASTLE

steel columns, complete with 250-W mercury lanterns and gear, for B.C.: Abacus Engineering Ltd., Russell Chambers, King Street, Nottingham.

OPENCAST MINING

N.C.B.—Contracts let in connection with opencast coal production during April:

Westfield: power supply to conveyor and crusher—South of Scotland Electricity Board.

Bebside disposal centre: construction of 5 stocking ground—Owen Pugh and Co., Ltd.

Templenewsam disposal centre: extension to screening plant—Sir Lindsay Parkinson and Co., Ltd.

Peel Hall disposal centre: demolition of buildings and chimney—William Todd and Co. (Pemberton), Ltd.

GOVERNMENT CONTRACTS

Air Ministry.—Contracts to the value of £500 or over placed for the weeks ended April 15 and 22:

Building work: London Airport, Middx.—W. H. Gaze and Sons, Ltd., 45 Victoria Road, Surbiton, Surrey; Ballykelly, Northern Ireland—J. Kennedy and Co. (Contractors), Ltd., Society Street, Coleraine, Northern Ireland; Scampton, Lincs.—Frank R. Eccleshare, Ltd., Dixon Street, Lincoln; Farnborough, Hants—Walter Llewellyn and Sons, Ltd., 79 Davies Street, London, W.1; Coltishall, Norfolk—J. Youngs and Son, Ltd., P.O. Box 32 Norwich, Norfolk.

Runway reconstruction: Ballykelly Northern Ireland—F. B. McKee and Co., Ltd., 9 Shore Road, Belfast, Northern Ireland.

Artificers' work: Waltham, Berks.—Kyle Stewart (Contractors), Ltd., Ardshiel House, Empire Way, Wembley, Middx.

Painting work: Bicester, Oxford (Oxon). etc.—Ian Williams and Co., Ltd., Wroughton Place, Ely, Cambs.

Electrical installations: R.A.F. Stations within Headquarters, Air Ministry Directorate General of Works, 7 Works Area.

The Grove, Falmouth Avenue, Newmarket, Suffolk—Norwich Electrical Co., Ltd., Dereham Road, Norwich, Norfolk, and London Electricity Board, 81 Chelsea Manor Street, London, S.W.3; Lakenheath, Suffolk—The Sunderland Forge and Engineering Co., Ltd., Creechurch House, Creechurch Lane, London, E.C.3.

Moorings and salvage work: R.A.F. Stations within Headquarters, Air Ministry Directorate General of Works, 4 Works Area, Undercliff House, London Road, Appleton, Warrington, Lincs.—Hancocks Shipbuilding Co. (Pembroke), Ltd., Dry Docks, Pembroke Dock, Pems.

Contracts to the value of £500 or over placed for the week ended April 29:

Building work—Waddington, Lincs.—Ellis Thompson and Co., Ltd., James Street, Louth, Lincs.; Lyneham, Wilts.—F. Rendell and Sons, Ltd., St. John Street, Devizes, Wilts.; Chicksands, Beds.—A. A. Stuart and Sons (Glasgow), Ltd., 10 Upper Grosvenor Street, London, W.1; Cottesmore, Rutlands.—A. Monk and Co., Ltd., P.O. Box 4 Stamford, Lincs.

Artificers' works: Locking (Somerset), etc.—Dudley Coles, Ltd., Bath Street, Plymouth, Devon; Kinloss (Morayshire), etc.—Scottish Tarmacadam, Ltd., 44-52 Bilbao Street, Glasgow, C.5.

Painting work: Henlow, Beds.—J. D. Tighe and Co., Redbourne Mere, Kirtton Lindsey, Gainsborough, Lincs.

Modifications of fuel installations: Mildenhall, Suffolk—William Benson and Co. (London), Ltd., 25 Camberwell Grove, London, S.E.5.

Metropolitan Police.—Recent contracts placed include:

Erection of sectional police station and one detached house, The Oaks, Ruislip, Middx.—J. Lawson and Co., Ltd., £56,547.

Internal redecorations and alterations to ablutions, Harlesden Police Station and Section House—Websters (Builders), Ltd., £3,446.

Ministry of Finance, Northern Ireland.—

Contracts exceeding £250 in value placed during the period April 4 to April 29, inclusive:

Reconstruction U.S.C. drill hut: Orritor, Cookstown, Co., Tyrone—W. J. Crooks, 19 Union Street, Cookstown.

External and internal painting: R.U.C. Station, Holywood—McBurney and Cowan, 144 Donegall Pass, Belfast, 7.

Dredging Coleraine Harbour, etc.: Coleraine Harbour, Coleraine—Farrans, Ltd., Dunmurry, Belfast.

Periodical inspection weighing machine, etc.: Government establishments in Northern Ireland—W. and T. Avery, Ltd., 49 Smithfield, Belfast, 1.

Electrical installation: R.U.C. District Headquarters, Bangor—H. Cowan, 35 Main Street, Bangor.

Alterations to A.F.S.: King Street, Magherafelt—E. Dawson and Sons, Main Street, Bellaghy.

Construction and completion of Pig Progeny Testing Station: Greenmount Agricultural College, Muckamore—Samuel Turtle, Ltd., Broadway Avenue, Ballymena.

Electrical installation: Petty Sessions Courts, Belfast, 1—A. and C. Electric, Ltd., 8 College Square East, Belfast, 1.

Ministry of Works.—Contracts placed for week ended April 16:

Derbyshire: Inland Revenue Office, Gower Street, Derby—alterations—A. Holmes and Sons, Ltd., Navigation Bridge, London Road, Derby.

Devon: Customs House, Plymouth—alterations and decorations—Carkeek and Sons, Ltd., Gilwell Street, Plymouth.

Dunbartonshire: Temporary Sorting Office, Cumbernauld—erection—M. and H. Baillie, Duncryne Place, Bishopbriggs.

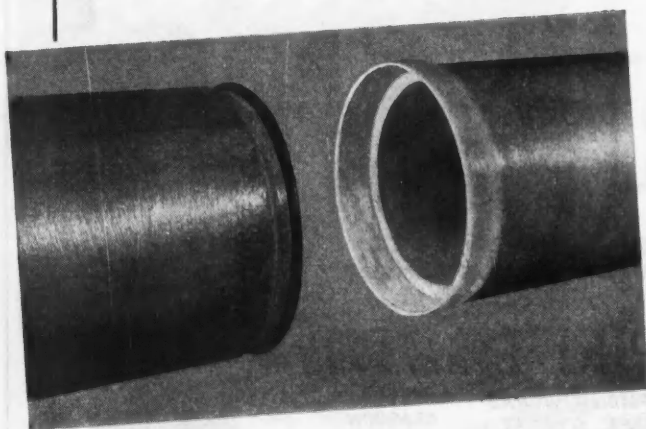
Hertfordshire: Building Research Station, Bucknalls Lane, Garston—renewal of valley gutters to workshop block—Payne Bros. (Leavesden), Ltd., Leavesden, Watford.

Iran: British Embassy Compound, Gulhek electricity supply—A. Hakin and Co. Boite Postale, 163 Teheran.

London: Joint occupied building, Cornwall House, Stamford Street, S.E.1—conversion—W. and M. Negus, Ltd., Station Works, King James Street, S.E.1; joint occupied building, Queen Anne's Chambers, S.W.1—builder's work for passenger lift—Richard Madder, Ltd., 15 The Viaduct Sherwood Road, Harrow, Middx.; 10 Carlton House Terrace, S.W.1—interpretation system—Tannoy Products, Ltd., Norwood Road, S.E.27; Sorting Office, North Kensington, W.10—postmen's retir-

'DECKON'

THE "EXTRA STRENGTH" CONCRETE PIPE



SHARP JONES
& CO., LTD.

Reinforced and protected with resin bonded glass fibre for all main drainage and surface water schemes.

- POSITIVE DESIGN TO ANY TWO EDGE TEST LOAD
- SIMPLIFIED MANUFACTURE
- COMPLETE IMMUNITY TO AGGRESSIVE ATTACK BY GROUND WATERS
- MARKED REDUCTION IN WEIGHT
- FLEXIBILITY
- NEW INTEGRAL GLASS FIBRE JOINT ASSEMBLY

PARKSTONE · POOLE · DORSET

Approved for Loan Sanction by the Ministry

ing room—Dennis Price, Ltd., 6 Lechmere Road, Willesden Green, N.W.2; Superintendent of Parks Depot, Regent's Park—erection of workshops, etc.—Whyatt (Builders), Ltd., 225, Streatham High Road, S.W.16; Export Credit Department, Barrington House, 59-67 Gresham Street, E.C.2—internal decoration—J. W. Green (Painters), Ltd., 171 Graham Road, S.W.19. Contracts placed for week ended, April 23:

Lincolnshire: Head Post Office, Wide Bargate, Boston—improvements to public offices—N. H. Vamplins and Sons, Ltd., 67a Main Ridge, Boston.

London: Cumberland Gate Lodge and Grosvenor Gate Lodge, Hyde Park, W.1—taking down and re-erection—Dove Bros., Cloudesley Place, Islington, N.1; wedding to H.R.H. Princess Margaret—decorations—John Mowlem and Co., Ltd., 91 Ebury Bridge Road, S.W.1; National Maritime Museum, S.E.10—resurfacing of car park, etc.—H. V. Smith and Co., Ltd., Walkden House, Melton Street, N.W.1; West India Dock, Millwall—erection of Customs office—John Mowlem and Co., Ltd., 91 Ebury Bridge Road, S.W.1; joint office building, 10 John Adam Street, Strand, W.C.2—decoration work—South London Decorators, Ltd., 9-11 Streatham High Road, S.W.16; Branch Post Office, Bellingham, S.E.6—erection—Whyatt (Builders), Ltd., Bentley House, 225 Streatham High Road, S.W.16; Monarch Telephone Exchange, E.C.2—Acoustic tiling—Horace W. Cullum and Co., 58 Highgate West Hill, N.6; Royal Hospital Chelsea, S.W.3—internal cleaning and decorating—South London Decorators, Ltd., 9 Streatham High Road, S.W.16; Crown Office Building, Keyworth Street, Southwark, S.E.1—erection—A. Roberts and Co., Ltd., 79 Eccleston Square, S.W.1.

Midlothian: Royal Botanic Gardens, Inverleith Row, Edinburgh—erection of extension units for two plant houses—V. and N. Hartley, Ltd., Greenfield, near Oldham, Lancs.

Post Office.—Contracts for duct laying, etc., works to the value of £500 and over placed during the week ended April 23.

Ashe Bros., 7 Marvell Avenue, Hayes, Middx.; Christie and Co. (Contractors), Ltd., Raemoir Road, Banchory, Kincardineshire; A. E. Farr, Ltd., Station Road, Westbury, Wilts.; George H. Graham (Contractors), Ltd., District Bank Chambers, Market Street, Huddersfield, Yorks.; McNicholas Construction Co., Ltd., 31a Cricklewood Broadway, London, N.W.2; The North Midland Construction Co., Ltd., Portland Works, Daybrook, Nottingham; The Norwest Construction Co., Ltd., Litherland, Liverpool, 21; John O'Dea, Ltd., 145 Otley Old Road, Lawnswood, Leeds, 16, Yorks.; Robert Paterson and Sons, Ltd., Milton Street, Airdrie, Lanarks.; F. W. Shanks, Ltd., Park Road, Hunstanton, Norfolk; George Taylor (Wolverhampton), Ltd., The Viewlands, Cross Road, Albrighton, Wolverhampton, Staffs.

Contracts for duct laying, etc., works to the value of £500 and over placed during the week ended, April 30:

The Baillie Contracting Co., Ltd., 2061 Coventry Road, Sheldon, Birmingham, 26; J. E. Billings and Co., Ltd., 54 Beddington Lane, Croydon, Surrey; Hugh Brown (Engineers), Ltd., Chart Road, Ashford, Kent; P. J. Byrnes, 168 St. Michaels Hill, Cotham, Bristol, 2; C.D.L. Construction Co., Ltd., Church Road, Egham, Surrey; J. Crockard, 72 Parkgate Avenue, Belfast; F. J. Dunkerton, Ltd., Nowhurst Quarries, Broadbridge Heath, Horsham, Sussex; The Eden Construction Co., Ltd., English Damside, Carlisle, Cumberland; W. and C. French, Ltd., 50 Epping New Road, Buckhurst Hill, Essex; Henry Hemmings, Ltd., 129 Brigstock Road, Thornton Heath, Surrey; Jennings and Geary (Contractors), 10 Fortfield Road, Knowle, Bristol, 4; McNicholas Construction Co., Ltd., 31a Cricklewood Broadway, London, N.W.2; May Gurney and Co., Ltd., Trowse, Norwich, Norfolk; J. Murphy and Sons, Ltd., 43 Charteris Road, Finsbury Park, London, N.4; The North Midland Construction Co., Ltd., Portland Works, Daybrook, Nottingham; The Norwest Construction Co., Ltd., Litherland, Liverpool, 21; Alexander Thomson and Co. (London), Ltd., 45a Kensington High Street, London, W.8; G. Turner and Son, Ltd., Hauxton Mill, Cambridge; Wilson Lovatt and Sons, Ltd., 16 Grosvenor Crescent, Hyde Park Corner, London, S.W.1.

War Department.—Contracts placed for the week ended April 22:

Anglesey (Ty Croes): building—Henry Jones and Sons (Rhosneigr), Ltd., Rhosneigr.

Berkshire (Didcot): building—H. F. Johnson, Ltd., Langley.

Dunbarton (Garelochhead): miscellaneous—Alexander Gow, Helensburgh.

Essex (Colchester): kitchens—Benham and Sons, Ltd., London, W.1.

Hampshire (Aldershot): building—R. Holford and Co., Ltd., Guildford; (Bordon): building—Sherfields (Farnham), Ltd., Farnham; (Tidworth): steel tank repairs—J. A. Stirling, Ltd., Welwyn Garden City.

Northumberland (Berwick-on-Tweed): water supply—Berwick Building Co., Berwick-on-Tweed.

Perthshire (Comrie): building—A. B. Kennedy and Son, Pitlochry.

Warwickshire (Long Marston): roadwork—J. J. Gallagher, Ltd., Birmingham.

Wiltshire (Netheravon): roadwork—A. J. Dunning and Sons (Weyhill), Ltd., Andover.

Worcestershire (Kidderminster): building—J. Herbert Smith (Kidderminster), Ltd., Kidderminster.

Yorkshire (York): building—William Birch and Sons, Ltd., York.

Contracts placed for the week ended April 29:

Ayrshire: Miscellaneous—Scottish Aviation, Ltd., Prestwick.

Berkshire (Arboretfield): Redecoration—Architectural Decorators, Ltd., London, S.W.1.

Hampshire (Bordon): Painting—P. J. Hartel (Southern), Ltd., Southampton; (Aldershot): building—Lee Bros. (Aldershot) Ltd., Aldershot; painting—Arnold Sharrocks, Ltd., Ash, Aldershot.

Kent (Hythe): Painting and decorating—T. H. Kenyon and Sons, Ltd., London, W.9.

Monmouthshire (Chepstow): Heating and ventilating—Arthur Heaton and Co., Ltd., Liversedge.

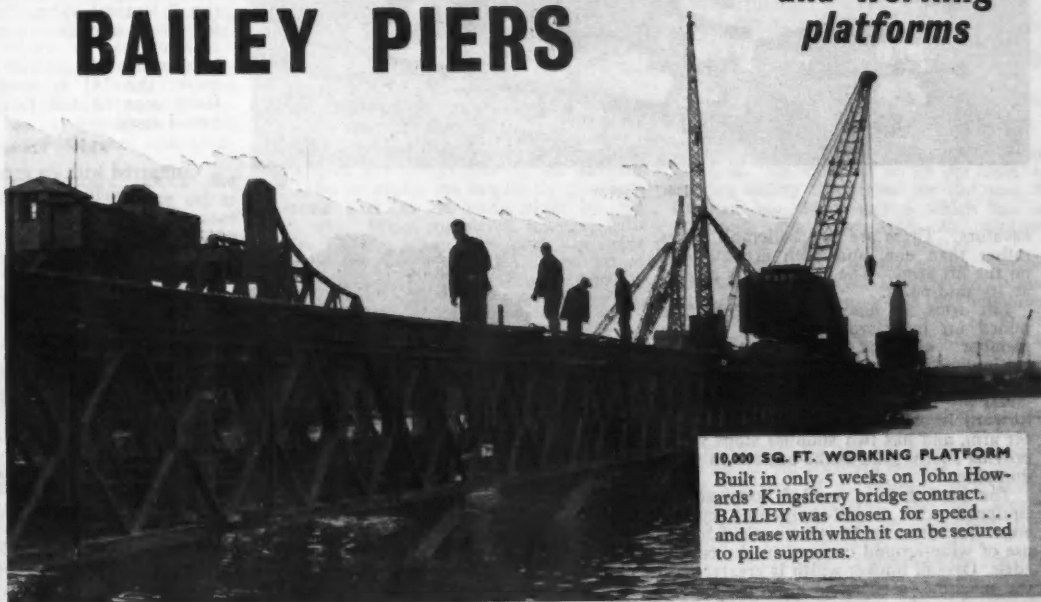
Midlothian (Edinburgh): Building—William Arnott McLeod and Co., Ltd., Edinburgh, 11.

Somerset (Watchet): Redecoration—P. J. Hartel (Southern), Ltd., Southampton.

Warwickshire (Bramcote): Roadwork—Constable Hart and Co., Ltd., Derby.

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and working
platforms



10,000 SQ. FT. WORKING PLATFORM
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Trade Section

CATERPILLAR'S THREE NEW MACHINES

944A and 955F Traxcavators and D4C Tractor

FURTHER details of their three new machines—the 944A Traxcavator, D4C crawler tractor and 955F Traxcavator—were announced last week by Caterpillar Tractor Co., Ltd. (a preliminary report first appeared in *The Contract Journal*, April 21).

Powered by either a petrol or diesel engine, the 944A is fitted with a 2 cu. yd. capacity bucket as standard equipment. Both petrol and diesel engines are rated at 105 net horsepower. The maximum rating of the D330 diesel engine is 135-h.p.

Front tyres are the farthest-forward portion of the machine frame, eliminating the risk of damage to truck bodies by contact while loading. The bucket is provided with a tip-back angle of 41 degrees at ground level, as on Caterpillar's line of track-type Traxcavators. Tip-back at maximum lift is 50 degrees. Automatic bucket positioner and lift kickout, operated hydraulically, are standard equipment.

Control of the loader is performed by a newly designed hydraulic system. To assure maximum cleanliness, the system is entirely closed, and all hydraulic fluid is full-flow filtered.

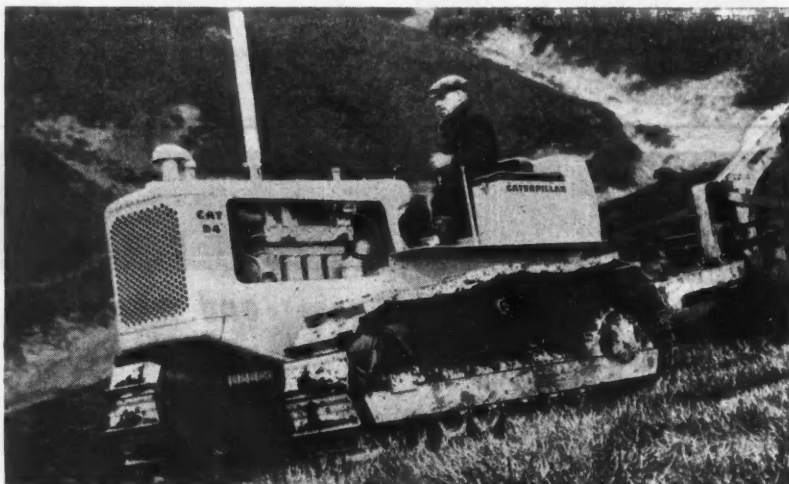
Structurally, the loader lift arms and the tilt linkage differ in several respects from the arrangement used on other Trax-

a new starting system and greater ground clearance.

Available with either a standard or an optional, lower speed transmission, the



944A Traxcavator



D4C tractor

cavators. There are two bellcrank levers, rather than one, and both are mounted on the lift arms. The rear lever is pivoted at its mid-point.

Lift arms are made of solid 2in. plate, joined for increased rigidity by a cross-member of box type construction. Optimum visibility is provided by tapered lift arms. Both front and rear bellcrank levers are of cast steel construction. The forward lever is straddle-mounted on the lift arm, and has two snubber stops which provide sharp, solid shake-out action when dumping.

The bucket is of welded construction, equipped with a self-sharpening cutting edge. Bucket strength is bulwarked by the use of wrap-around corners on the cutting edge. Overall bucket width is greater than the machine, serving as a protection for tyres when the machine is used in such applications as shearing banks or cleaning gutters.

D4C Tractor

Now in production at Caterpillar's Glasgow plant, the D4C is rated at 52 drawbar horsepower, and has 25 per cent. more lugging ability than previous models,

machine is the first in its size class to have a forward-reverse lever. The new spur gear transmission has five speeds forward and four in reverse and permits quick forward-reverse shifting.

This is also stated to be the first tractor of its size to incorporate the new dry-type air cleaner which consists of two filter elements and a precleaner. The majority of all filterable foreign elements are taken out of the air by the precleaner, with the remainder removed by the main element. A secondary, or safety element prevents

engine damage in the event of undetected main element damage. The main element is made of plastic impregnated cellulose and can be cleaned either by washing with water or a blast with an air hose.

Powered by a new four-cylinder engine which delivers 65 flywheel horsepower at 1,600 r.p.m., the D4C develops 13,000lb. maximum drawbar pull in first gear with a standard transmission. With the optional transmission, it develops a maximum of 14,600lb. drawbar pull.

A new hydraulic control, the 143, is mounted on the tractor. The standard control, with one internal valve, can be used to control either a bulldozer blade, tool bar or rear implement. With an additional internal valve, the control is used for either one front-mounted tool and a rear-mounted or towed tool, or two rear implements. By adding an external, third, valve, the 143 is used to control one front-mounted and two rear-mounted or towed tools.

955F Traxcavator

Compared with its predecessor, the 955F
(Concluded on next page)



955F Traxcavator

Trade Section

NEW AUSTIN 30CWT. TRUCK HAS MORE POWER

PRODUCTION has commenced on a 30cwt. truck with single rear wheels, to replace the "301" normal control model, the Austin Motor Co., Ltd., announce.

This new S"200" vehicle has an improved road performance. The 2.2 petrol or 2.2 diesel engines are available, the latter without change, but the power and torque of the petrol engine have been stepped up from 46 to 61 b.h.p. and 97 to 111 lb. ft. respectively. A redesigned chassis of deeper section, 7½ in. compared with 6 in. on the "301", is employed, and the wheelbase is 9 ft. 6 in.

A new four-speed and reverse gearbox is now fitted to both engines, with synchromesh on second, third and top, one aspect of this design being silence in the indirect gears. The standard rear axle ratio on both petrol and diesel versions is 5.714:1 giving maximum speeds of approximately 48 and 46 m.p.h. respectively; an alternative ratio of 6.57 is available, thus providing superior hill climbing power in certain territories.

Sixteen-inch wheels fitted with 7.50-16 8-ply tyres are standard equipment with no alternative available. Girling hydraulic

brakes with two leading shoe operation at the front and leading/trailing shoe at the rear have a frictional area of 162 sq. in.—some 5 sq. in. more than its predecessor. The suspension continues without appreciable change apart from the provision of hydraulic shock absorbers at the front as standard equipment. Turning circle of 35 ft. is identical to that of the small Austin A.40.

The S"200" shares the now familiar F.G. cab with the larger 2-, 3- and 4-tonners in the Austin range. Curved glass windows in each front quarter panel provide the driver with a clear view of the kerb at all times. Instruments include speedometer, oil pressure gauge, ammeter and fuel gauge, plus "no charge" and main beam warning lights.



S "200" truck

NEW PACKAGED BOILER BY COCHRAN'S

A new range of horizontal "packaged" boilers for steam or high-pressure hot water has been introduced by Cochran and Co., Annan, Ltd., Annan, Dumfriesshire.

Known as the "Sinupac," the boilers are available from 3,750 to 37,000 lb./hr., are of welded construction, and each is supplied mounted on a bed-frame which carries also the control panel and feed-pump.

The outstanding feature about the "Sinupac" is its ability to operate either on coal or oil, if needed, as in all cases the furnace tubes are large enough to change comparatively easily from oil to coal firing.

A further point of interest is that the boiler is designed in such a way that it is sufficiently large to allow a man to get inside for inspection purposes.

BRAY SALES DRIVE IN WESTERN GERMANY

Bray Construction Equipment, Ltd., Feltham, have entered into an arrangement with Klöckner and Co., Duisburg, Germany, for marketing of the Bray range of tractor shovels.

Tractor shovels exported to Germany will be fitted with the air-cooled Deutz Dieselmotor. The three models available will be the 450T with a 72-h.p. Deutz four-cylinder engine, having a lifting capacity of 7,300 lb.; the 455T powered by a 90-h.p. Deutz six-cylinder engine, having a lifting capacity of 8,000 lb.; and the 460T model with a 108-h.p. Deutz six-cylinder engine. This latter model has a lifting capacity of 12,000 lb.

UNITED STEEL'S £32½M. DEVELOPMENT SCHEME

Under a new development scheme costing a total of £32½m., Appleby-Frodingham Steel Company plans to increase its productive capacity for iron and steel and to install a new rod/bar mill, and Samuel Fox and Co., Ltd., is to add 100,000 tons per annum to its steelmaking capacity. Both works are branches of The United Steel Companies, Ltd.

These major projects, which are scheduled for completion by the autumn of 1964, represent the largest development scheme ever to be undertaken by the company. When completed, together with other schemes already in hand, the ingot capacity of United Steel will be raised from its present level of about 3,000,000 tons to about 4,000,000 tons per annum.

FLAT PLAN-STORAGE SYSTEM

James H. Randall and Son, Ltd., Paddington Green Works, London, W.2, are marketing a new system of storing plans in the flat. Known as the Ranplan system, it provides for the storage of drawings in 1 in. deep sliding trays.

The back section of each tray is boxed in and the right hand corner has the side and front flanges notched away to a distance of 3 in. to assist the easy reading of drawing references.

There are three sizes of cabinets for the trays, the largest of which is 47½ in. high by 51½ in. wide by 21½ in. deep, to house 90 sliding trays in three bays of 30 each, 15½ in. wide by 20½ in. deep by 1 in. high for 15 in. by 20 in. drawings. The price of this model is £79.

BRITISH STANDARDS

Test Methods for Bitumen

THIS new publication (B.S. 3235:1960) contains 11 authoritative general methods of testing bitumen suitable for the specification of bitumen-containing compositions used in the building, road engineering and electrical industries.

The issue of B.S. 3225 sees the collection in one volume of most of the test methods applicable to the various bitumen-using industries. The exceptions are special methods for particular types of composition: these are described in the standards themselves, (e.g., B.S. 434, 598 and 1858). Thus all the information needed for the specification of bitumen-containing compositions used in these industries is available in British Standards publications.

The methods, which are technically identical with the corresponding methods of the Institute of Petroleum, are for the determination of: ash; ductility; flash point (open) and fire point, using Cleveland apparatus; flash point (open) and fire point, using Pensky-Martens apparatus; fluxing value of flux oil; loss on heating bitumen and flux oil; penetration; softening point (ring and ball); solubility in carbon disulphide; viscosity of cutback bitumen and road oil; water content (Dean and Stark method). Price 8s. 6d.

Copies of this British Standard may be obtained from the British Standards Institution, Sales Branch, 2 Park Street, London, W.1.

BLAW KNOX ORDERS WELL AHEAD

In his statement to be presented at the company's annual general meeting, Mr. Alexander Hood, chairman of Blaw Knox, Ltd., says that the order book in the construction machinery division in January, 1960, was materially better than at January 1, 1959, and orders booked in the first quarter of 1960 are well ahead of those booked in the first quarter of last year.

PAINT ASSOCIATION'S SYMBOL

A symbol designed by a Dundee art student has been adopted by the recently formed Scottish Association of Paint Manufacturers.

The design is in the form of a thistle, with the ball of the thistle quartered by a St. Andrew's Cross, and the letters SAPM in the quarter sections.

(Concluded from previous page)

has a number of new and improved features. An increase of 25 per cent. in lugging ability is claimed for the new 70 flywheel h.p. diesel engine which has, as standard, the dry type air cleaner, guaranteed 99.8 per cent. efficient.

The exclusive Cat oil clutch delivers power to the improved selective type speed change transmission, which has increased travel speed ranges from 1.6 to 5.6 m.p.h. in forward travel and 1.9 to 5.3 m.p.h. in reverse.

Ground clearance has been increased by 14 per cent. to 15½ in. offering greater manoeuvrability. Box section lifting arms, cross braced for rigidity and double action bucket tilt and lift cylinders operate the 1½ cu. yd. standard bucket. A ground line tilt-back of 40 degrees, it is stated, ensures a full bucket after the digging operation which can be performed to a depth of 11 in. below ground level.

The bucket can be preset to the required digging angle at the start of a job and by means of an automatic bucket positioner, will be angled accurately at the beginning of each digging cycle, leaving the operator free to concentrate on the other controls. A further advantage is the automatic kick-out which halts the bucket lift action at full lift height. The maximum dumping angle is 50 degrees at maximum lift, the dumping height being 729 13/32 in.

Trade Section

RUBBER-TYRED OVERHEAD CRANES INSTALLED AT AYLESFORD PAPER MILLS

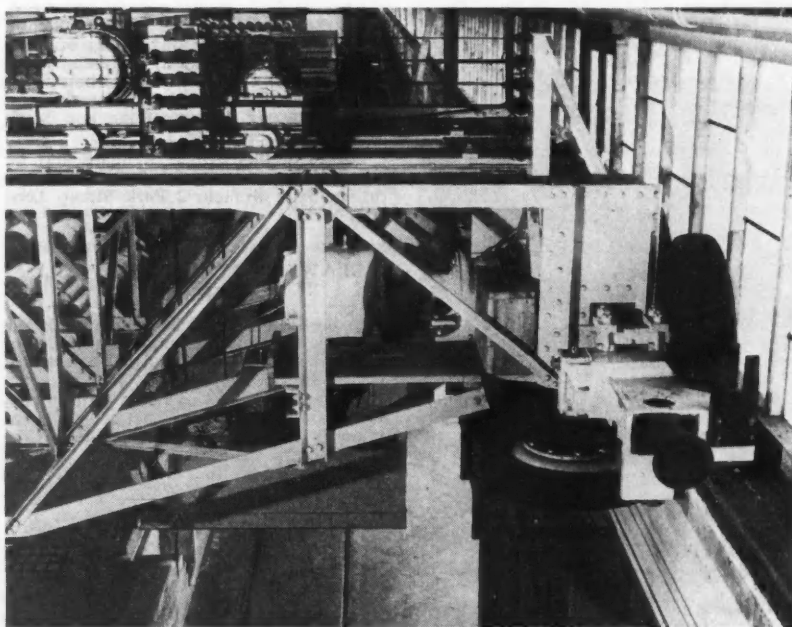
WHAT is believed to be the world's first pair of rubber-tyred operational electric overhead travelling gantry cranes has been installed by the Reed Paper Group at its Aylesford Paper Mills in Kent.

Invented by W. S. Atkins and Partners, consulting engineers, and developed in collaboration with Strachan and Henshaw, Ltd., the cranes dispense with the traditional gantry rail and run directly on a concrete runway. They have a nominal span of 69ft. 6in., and a lifting capacity

Use of rubber tyres has provided an additional advantage—although it is intended that each end-carriage be driven by a separate electric motor, in an emergency the crane can be operated with only one motor driving one side of the crane.

Original End-carriage

The original end-carriage of the cranes at Aylesford had steel wheels which ran on rails grouted to the top of the concrete gantry beams. The conversion consisted of fitting redesigned end-carriages and removing the rails, with the result that the



Rubber-tyred crane installed at Aylesford paper mills

of 2 tons, which may be increased to 3 tons by the installation of a larger hoist-motor.

Each end-carriage is supported by five pneumatic-tyred wheels—standard commercial vehicle type tyres (Michelin X 7.00-20)—together with two horizontally mounted solid-tyred wheels which bear on the sides of the concrete runways to keep the cranes running in a straight path.

Disc brakes are fitted to two of the pneumatic wheels of each end-carriage assembly, and a 7.5-h.p. electric motor drives one other pneumatic wheel through reduction gearing.

rubber-tyred wheels now travel on concrete runways.

Speeds of up to 400ft. per minute are possible. Acceleration to full speed can be accomplished in six seconds and the crane can be brought to a standstill from full speed in 6ft.

Access platforms are provided for servicing the motors and inflating the tyres. Gauges are mounted on each wheel to simplify routine checking of tyre pressures, and screw jacks have been incorporated in the end-carriage to facilitate wheel changes.

MERGER CREATES NEW FIRM

"Not a take-over, but a merger" is how the creation of a new firm, Burts and Renton, Ltd., is described by its sponsor—Burt, Boulton and Haywood, Ltd., and G. H. Renton and Co., Ltd.

Mr. Peter Lindsey-Renton is managing director of the new firm which aims "to keep pace with modern trends in the entire field of timber imports and distribution concentrating on softwood, hardwood, plywood and chipboard."

Chairman is Mr. Howard C. Hitchcock. The other directors are J. K. Lindsey-Renton, Philip Yonge, F. L. Somerscales, J. A. Schofield, W. H. Earwaker and M. T. Cook.

YALE DIESEL FORK LIFT TRUCK

A new diesel fork lift truck has been announced by the Materials Handling Division of The Yale and Towne Manufacturing Company, Willenhall, Staffs.

The truck, the Yale D51, has a laden lifting speed of over 50ft./min., and a laden lowering speed of over 70ft./min. The lifting capacity of 4,000lb. is at 24in. load centre.

Fitted with a Perkins Four 203 diesel engine, the truck has a fluid drive two-speed-forward and two-speed-reverse gearbox giving a travelling speed in each direction of over 8 m.p.h.

B.P.'S NEW ROAD SURFACING MATERIAL

A NEW type of road surfacing material has been tested successfully by the British Petroleum Company in Norway during the recent winter months. This consists of gravel mixed with "road oil," the latter material resembling heavy fuel oil in appearance.

The surfacing is stated to be particularly suited to those areas with little money for road construction work, where it provides a low cost surface for existing untreated roads. In Scandinavia, and other areas of similar climate, oil gravel has the additional merit of remaining flexible even at very low temperatures, enabling it to resist frost damage.

Trial batches of oil were prepared at the B.P. Group's Hamburg Refinery and experimental stretches of road were laid at two sites in Norway. These trial surfaces are reported to be in excellent condition after the winter, and B.P. is now to participate in the supply of the first quantity of road oil to be used by the Norwegian State Highways Board. The company is also investigating the possibilities of marketing the product in other European countries.

MANUAL ON PITCH FIBRE PIPES

A new manual on pitch fibre pipes and their applications has been produced by the Pitch Fibre Pipe Association of Great Britain.

Divided into sections covering properties and advantages, costs, laying, fittings, manufacture, and case histories, the manual takes the form of a loose-leafed folder so that further sections or revisions can be added in the future. Each section is sub-divided by a simple colour code into general information, drainage, electrical, land drainage and irrigation, and new applications, but so far only drainage has been covered. The next section, to be made available shortly, will deal with hydraulic capacities.

The information given on the sheets is common to pipes manufactured by the member companies of the association, which include The Key Engineering Co., Ltd., Brookgate Industries, Ltd., Temple Tubes, Ltd., Union Fibre Pipes (Great Britain), Ltd., and Flexpipe, Ltd.

Copies of the manual, which is to International Size A4, are obtainable from the secretary of the Association, 27 Chancery Lane, London, W.C.2.

VACUFLEX PLASTIC HOSE

Recon (Pipelines), Ltd., Sheerwater, Woking, Surrey, have introduced a range of plastic hoses manufactured by a new technique. Basically the hose is constructed of p.v.c. or other thermoplastic material supported by a high tensile steel spring which is entirely covered in p.v.c. and forms an integral part of the hose. Future developments will employ other materials such as polythene and nylon.

Larger bore Vacuflex is said to be suitable for use in hot air ducting systems and can be encased in concrete. Made of a rigid material it can be used as a ducting for ventilation systems in large buildings.

AUTOMATIC BLADE CONTROL

The Preco "all-transistor" Dial-A-Slope automatic blade control is now available for installation in the Le Tourneau-Westinghouse line of motor graders. According to a joint announcement by L-W and Preco Incorporated, the automatic control system can easily be installed on any new or used, current model L-W grader.

Trade Section

NEW COMPANIES

The undermentioned particulars of new companies recently registered are taken from the daily register compiled by Jordan and Sons, Ltd., company registration agents, 116 Chancery Lane, London, W.C.2:—

Seniors (Cadishead), Ltd., 95 Liverpool Road, Cadishead, Lancs., builders. £7,500. Directors: Maximilian Senior, 42 Carlton Way, Glazebrook, Lancs.; Geoffrey Senior, 80 Albert Street, Eccles, Lancs.; Kenneth Senior, 175 Liverpool Road, Irlam, Lancs.

Nason and Co. (Builders), Ltd., 18 Lewisham Way, S.E.1. £100. Directors: Wm. A. Nason and Annie M. Nason, 49 Hunsdon Road, S.E.14.

General Contractors (South Wales), Ltd., 11 Old Castle Road, Llanelly, public works contractors. £5,000. Directors: Thomas R. Morris, Awella, Meinciau Road, Mynydd-y-Garreg, Kidwelly; Victor Antoniazzi, 5 St. Teilo Street, Pontardulais; Giuseppe Antoniazzi, 36 Swansea Road, Llanelly.

Moss House Construction Co., Ltd., 48 Oxford Road, Blackpool, builders. £1,200. Directors: Norman Bacon, "Carrener," Moss House Lane, Westby, Lancs.; Fredk. H. Green, 43 Reads Avenue, Blackpool; David M. Tew, 48 Oxford Road, Blackpool.

Joseph Edwards and Co. (Thornton), Ltd., 49 Fleetwood Road, Thornton, near Blackpool, builders. £500. Directors: Joseph Edwards, 4 Saltash Road, Thornton, near Blackpool; Daniel Flanagan, 49 Fleetwood Road, Thornton, near Blackpool; Anthony Edwards, 3 Gloucester Avenue, Cleveleys, near Blackpool.

Western Dredgers, Ltd., West Canal Wharf, Cardiff. £50,000. Directors: Walter G. Davies, Hillcrest, Y-Goedwig, Rhiwbina, Cardiff; Wm. A. Tucker, 29 Westville Road, Cardiff; Richard R. Davies, John R. Tucker, Henry M. Tucker, John P. Adams and Jas. P. Lewis, Alscot (Builders), Ltd., 1 and 2 Great Winchester Street, E.C.2. £1,000. Director: Robert M. Brodman, 29 Platts Lane, N.W.3.

Steven (Holdings), Ltd., 14 Ironmonger Lane, E.C.2, builders. £5,000. Directors: Brian K. Davies, Aymers, Lynsted, near Sittingbourne; Trevor J. Davies, 40 Stradbroke Drive, Chigwell.

S. and S. Taylor, Ltd., Barclays Bank Chambers, The Broadway, N.9, contractors' plant. £1,000. Directors: Wm. Taylor and Mary I. Taylor, 55 Holt Road, Norwich. H. T. Hammond, Building Contractors, Ltd., 5 Mansfield Street, W.1. £100. Directors: Henry T. Hammond, 2 Northiam, Woodside Park, N.12; Bernard P. Howe, 5 Garthway, Finchley, N.12.

Monk and Crook (Builders), Ltd., 118 Shepherdess Walk, N.1. £100. Directors: William R. B. Monk, 129 New North Road, N.1; Ernest J. Crook, 53 Stanley Road, E.4.

Alfred H. Shaw, Ltd., 433 Montague Road, N.9, builders. £100. Directors: Alfred H. Shaw and Peter J. Shaw, 433 Montague Road, N.9.

C. N. Johnson and Co. (Builders), Ltd., 1-3 Cheval Place, S.W.7. £1,500. Directors: Cecil N. Johnson, Franklands Lodge, Addlestone, Surrey; James H. Hawkins, 32 Tivoli Crescent, Brighton.

Beddard (Builders), Ltd. £2,000. Directors: John R. Brookes, 49 Taylor Road, Kings Heath, Birmingham, 14; Donald A. Beddard, 48 Bleakhouse Road, Warley, Oldbury, Staffs.

Concord Construction, Ltd., 87 Wardour Street, W.1, builders. £1,000. Directors: Dennis C. Constant, 22 Cromwell Court, Kingston Hill, Surrey; John W. Dean Marshall, Amber Lodge, Ewhurst Avenue, Sanderstead, Surrey.

N. E. Shore, Ltd., public works and building contractors. £1,000. Permanent directors: Norman E. Shore, 22 Clevedon Road, Newport, Mon.; Walter H. Shore, 44 Woodland Park Road, Newport, Mon.; Mrs. Lorna E. Shore and Malcolm T. Howells.

A. G. Piff and Co., Ltd., Clarence Chambers, Clarence Parade, Cheltenham, builders. £2,500. Directors: Anthony G. Piff and Mrs. P. J. Piff, 69 Hesters Way, Cheltenham.

John Marsh (Contractors), Ltd., builders. £100. Director: John Marsh, 15 Braintree Road, Wymering, Cosham, Hants. Subscriber: Harry W. Stephens, 10 Bellevue Road, Southampton (solicitor).

B. M. Powell, Ltd., 54 Copperfield Avenue, Hillingdon, Middx., builders. £1,000. Directors: Beatrice M. Powell and Wm. C. Powell, 54 Copperfield Avenue, Hillingdon, Middx.

Bentley Building Co., Ltd., 47 Union Street, Oldham. £5,000. Wilfrid R. Salisbury, 86 Windsor Road, Oldham, signs as director.

Bickley and Fillary Co., Ltd., 491 Ley Street, Ilford, Essex, builders. £1,000. Directors: Chas. A. Bickley, 31 Avenue Court, Ilford; Eldred H. Fillary, 491 Ley Street, Ilford.

H. Barnes and Sons, Ltd., 40a Trafford Road, Salford, 5, builders. £3,000. Directors: Herbert S. Barnes, 46 Victoria Road, Salford, 6; John Barnes, 24 Grange Road, Winton, Eccles; Kate M. Barnes and Mabel B. Barnes.

Revmar Construction Co., Ltd., 10 Onslow Parade, Hampden Square, N.14, builders. £100. Directors: Helga Marcellis, 140 Beverley Drive, Edgware, Middx.; Shirley J. Joseph, 4 Jesmond Way, Stanmore, Middx.; June Revuelta, 60 Windmill Hill, Enfield, Middx.

Bledridge Construction, Ltd., builders, etc. £100. Directors: Ronald H. J. Watts and Ioan E. Watte, Higher Croft, Bledlow Ridge, High Wycombe, Bucks.

Evans Bros. and Charlton, Ltd., builders. £100. Permanent directors: Reginald G. Evans, 35 Park Avenue, Basing, Basingstoke; Peter J. Evans, 68 St. Peters Road, Basingstoke; Lewis Charlton, "Leysdown," Blenheim Road, Basing, Basingstoke.

Briscon Structures, Ltd., 58 High Street, Salford, Som., prefabricated buildings. £1,500. Directors: Albert W. Hale, 22 Carlingford, Bath, Som.; Stanley F. Packer, 58 High Street, Salford, Som.

C. Brindley and Son (Acton), Ltd., 26 Western Avenue, W.3, builders. £200. Directors: Maurice O. Brindley, 26 Western Avenue, W.3; Denis W. Hale, 10 Drew Gardens, Greenford.

Fairview Contractors, Ltd., builders. £1,000. Directors: Joseph P. and Pauline F. Burgess, both of 38 Fairview Avenue, Gillingham, Kent.

Gates and Vanstone, Ltd., Coles Park, Westmill, Herts., civil engineers and public works contractors, etc. £1,000. Permanent directors: Wm. E. J. Gates, Coles Park, Westmill, Herts.; Donald B. Vanstone, The Chalet, Bumbles Green, Nazeing, Essex.

Country Flats (New Forest), Ltd., 78 Queen Victoria Street, E.C.4, builders. £1,000. Directors: Alfred H. Stokes, Scatterbushes, Upshire, Essex; Christopher N. Stokes, Rustlings, Warren Hill, Loughton, Essex; Noel G. Stokes, Michael J. Stokes and Margaret Andrews.

J. R. Cockin, Ltd., builders. £5,000. Directors: John R. Cockin and Mrs. M. Cockin, Springfield, Tetney, Grimsby, Lincs.

R. and W. (Roofing), Ltd., 17a Morville Street, E.3, builders. £100. Directors: Mrs. Helen M. Rawlings, 116 Parnell Road, Bow, E.3; Kenneth J. Rawlings, 25 Athelstone Grove, Bow, E.3.

Bernard Stewart, Ltd., 5 Howard Street, Wakefield, builders. £3,000. Directors: Bernard E. W. Stewart, Laura Stewart and Keith B. G. Stewart, all 153 Lowfield Lane, Wakefield.

Craymek, Ltd., 9 Kensington Church Street, W.8, plant hire contractors. £1,000. Directors to be appointed by subscribers. Subscribers: John O. Holroyd-Doveton, 24 Wynnstey Gardens, W.8 (solicitor); Oliver O. Fisher, 9 Kensington Church Street, W.8.

H. W. Glover and Sons, Ltd., 482 Stanley Road, Bootle, 20, Lancs., builders. £1,000. Directors: Henry W. Glover and Mary W. Glover, 2 Ronald Road, Waterloo, Liverpool, 22.

R. A. Moor and Co., Ltd., builders. £1,000. Directors: Ronald A. Moor and Mrs. Irene T. Moor, 48 Gladstone Road, Hoddesdon, Herts.

C. S. Wiggins and Sons (Plant), Ltd., 57 Hart Road, Thundersley, Essex, plant hire contractors. £100. Directors: Cyril C. Wiggins, Chatsworth, 68 Hart Road, Thundersley, Essex; Joseph G. Wiggins, River View, Kiln Road, Thundersley, Essex.

K. Cross (Doncaster), Ltd., 19 South Parade, Doncaster, builders, £10,000. Directors: Kenneth Cross (permanent), Heatherbank, Bawtry Road, Doncaster; Joseph V. Dowling, 176 Moorgate Road, Rotherham.

Baker and Foster (1960), Ltd., 2 Upper Brook Street, Ulverston, Lancs., builders. £10,000. Directors: Joseph Dixon, 8 Argyle Street, Ulverston, Lancs.; Wm. J. Errington, 9 Tarn Close, Ulverston; and George Atkinson.

ROAD RECONSTRUCTION AT BURTON-UPON-TRENT

THE Borough of Burton-upon-Trent have been carrying out considerable reconstruction of Borough Road, including the railway bridge.

The old asphalt surface was removed from the two sides and the tram tracks and setts from the middle section. The latter had a concrete base and the sides were made up to the same level with lean-mix concrete.

Three inches thickness of 1½ in. D.T.S. base course (see close-up inset on photograph) to Table 2 of Appendix D (B.R.T.A. booklet "Dense Tar Surfacing") was hand laid by the contractors, Messrs. John Hadfield, to give the final shape required. The material was supplied by Bardon Hill Quarries, Leicestershire.

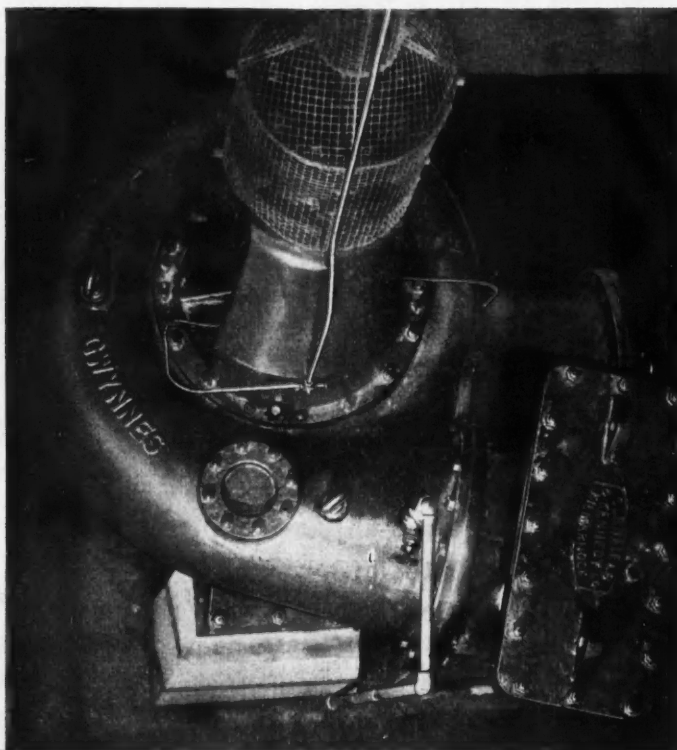
The surface was blinded with coated grit during rolling and carried traffic for periods up to 18 weeks before the final wearing course of hot rolled asphalt to B.S.594 was applied. It is reported that no laying difficulties were met and there was no trouble in compacting the asphalt even when circumstances made it necessary to apply it within two or three days after the base course.



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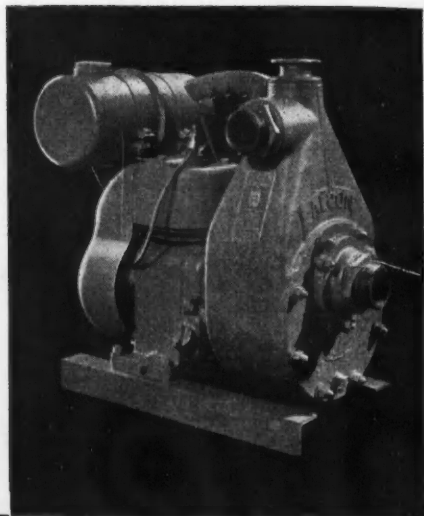
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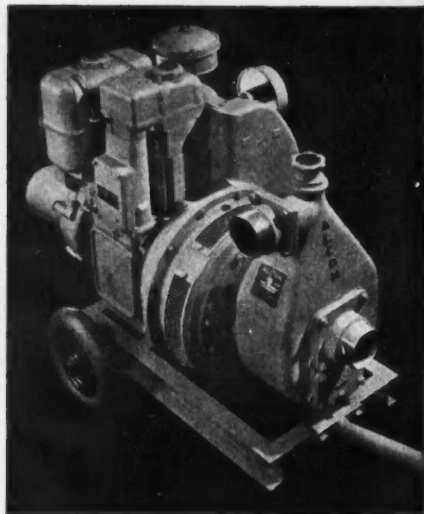
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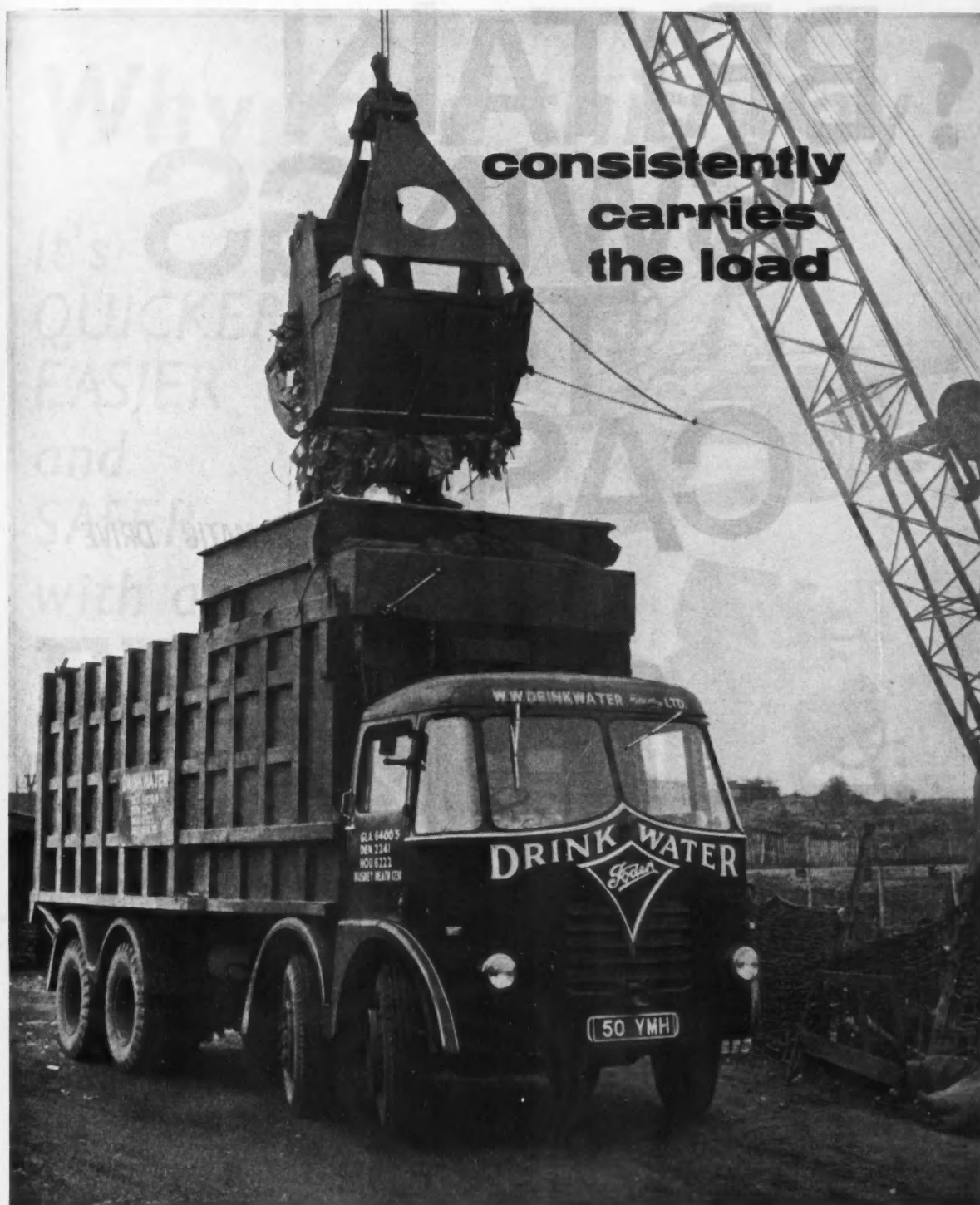
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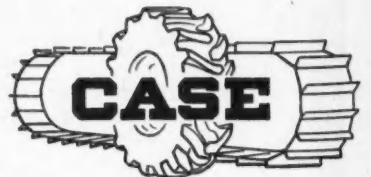
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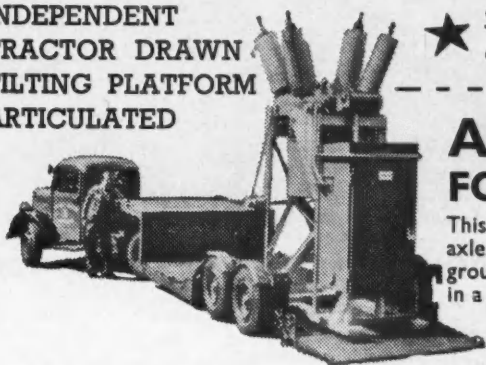
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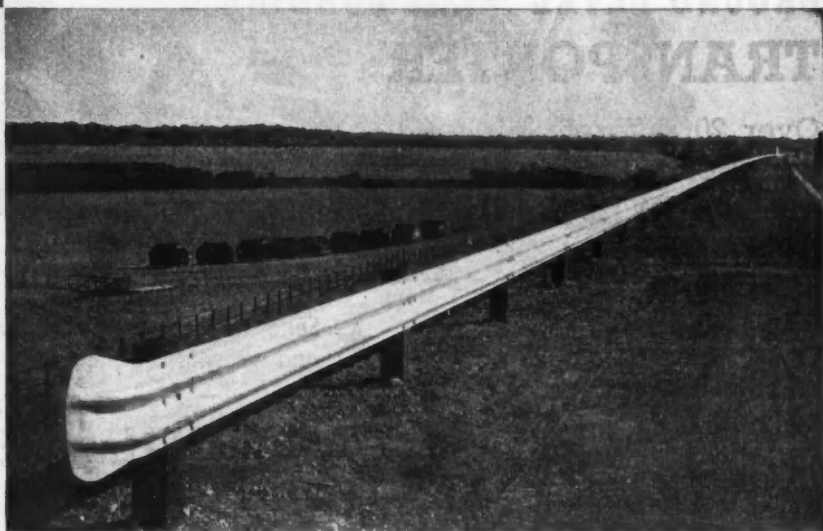
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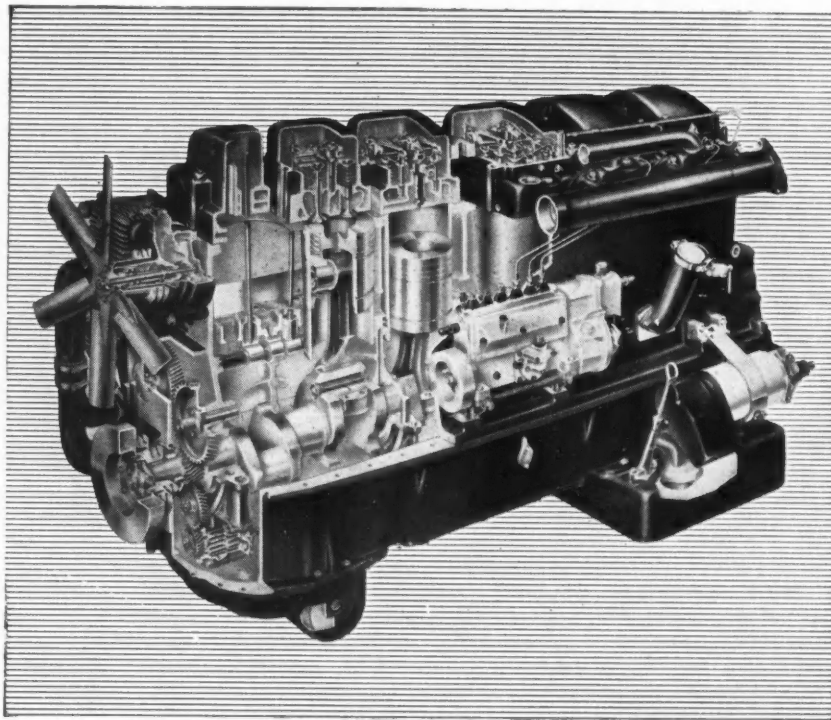
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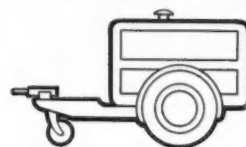
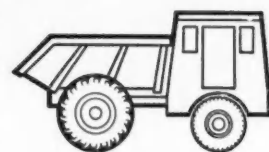
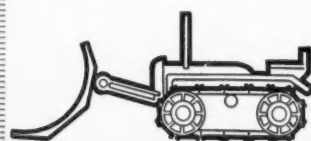
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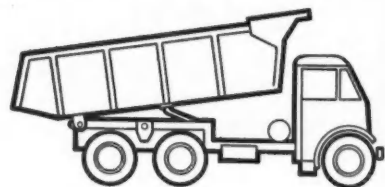


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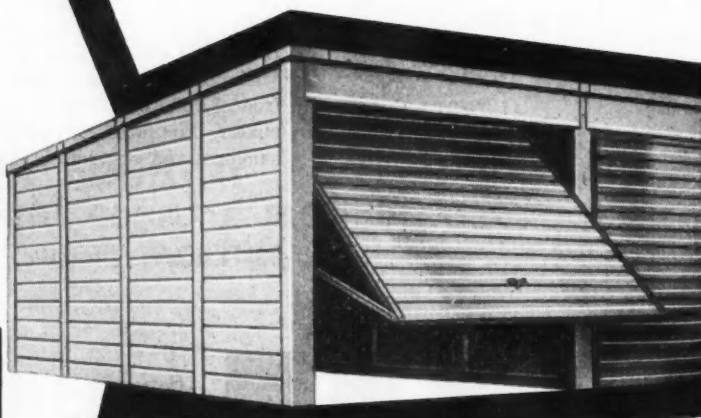
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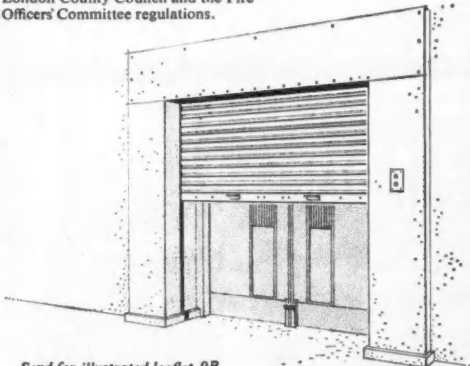
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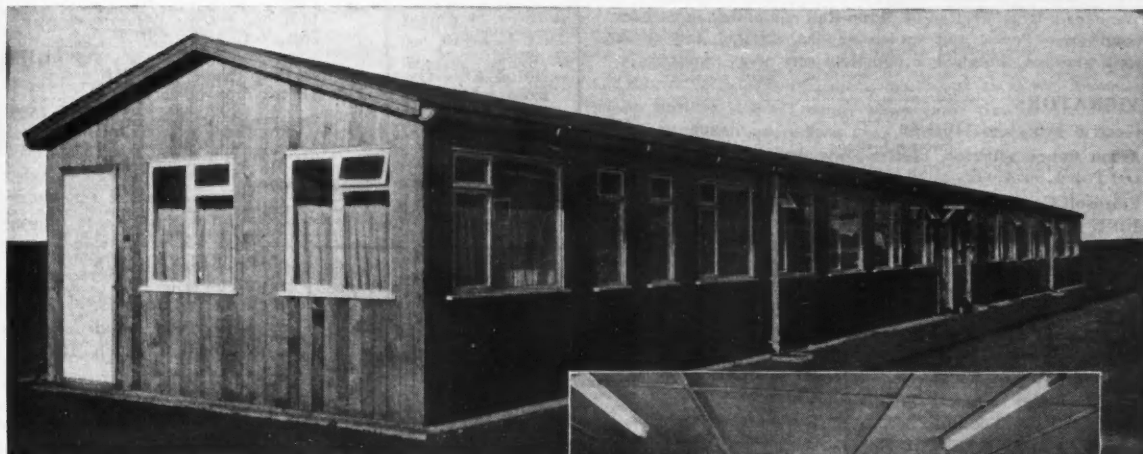
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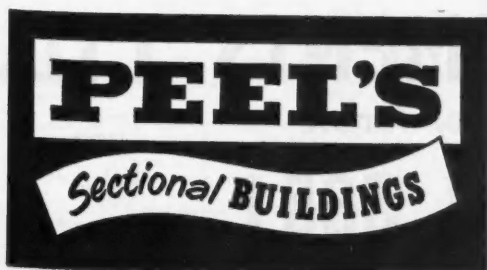
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(Continued from page 649)

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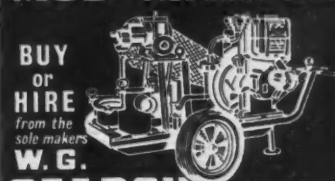
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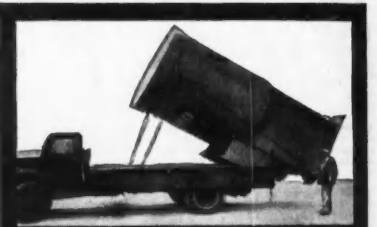
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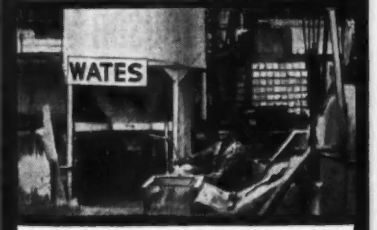
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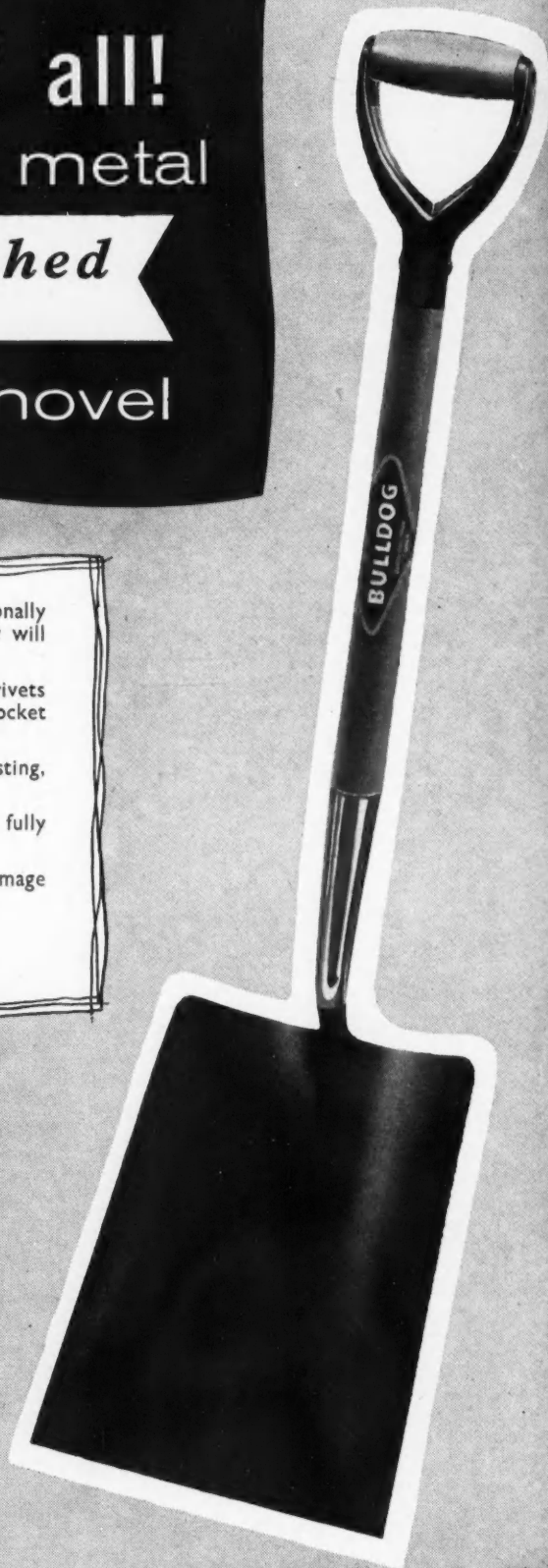
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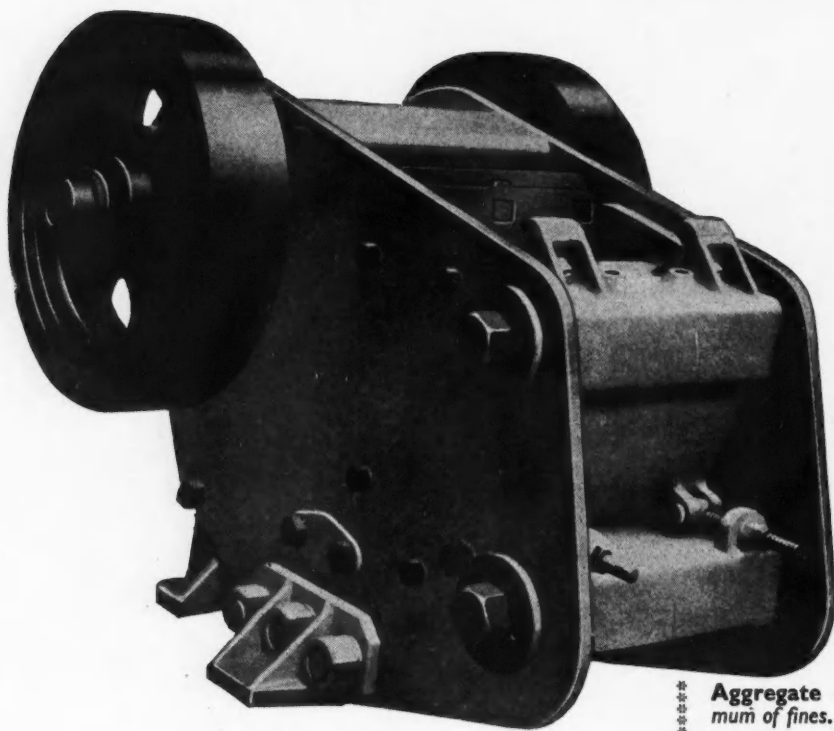


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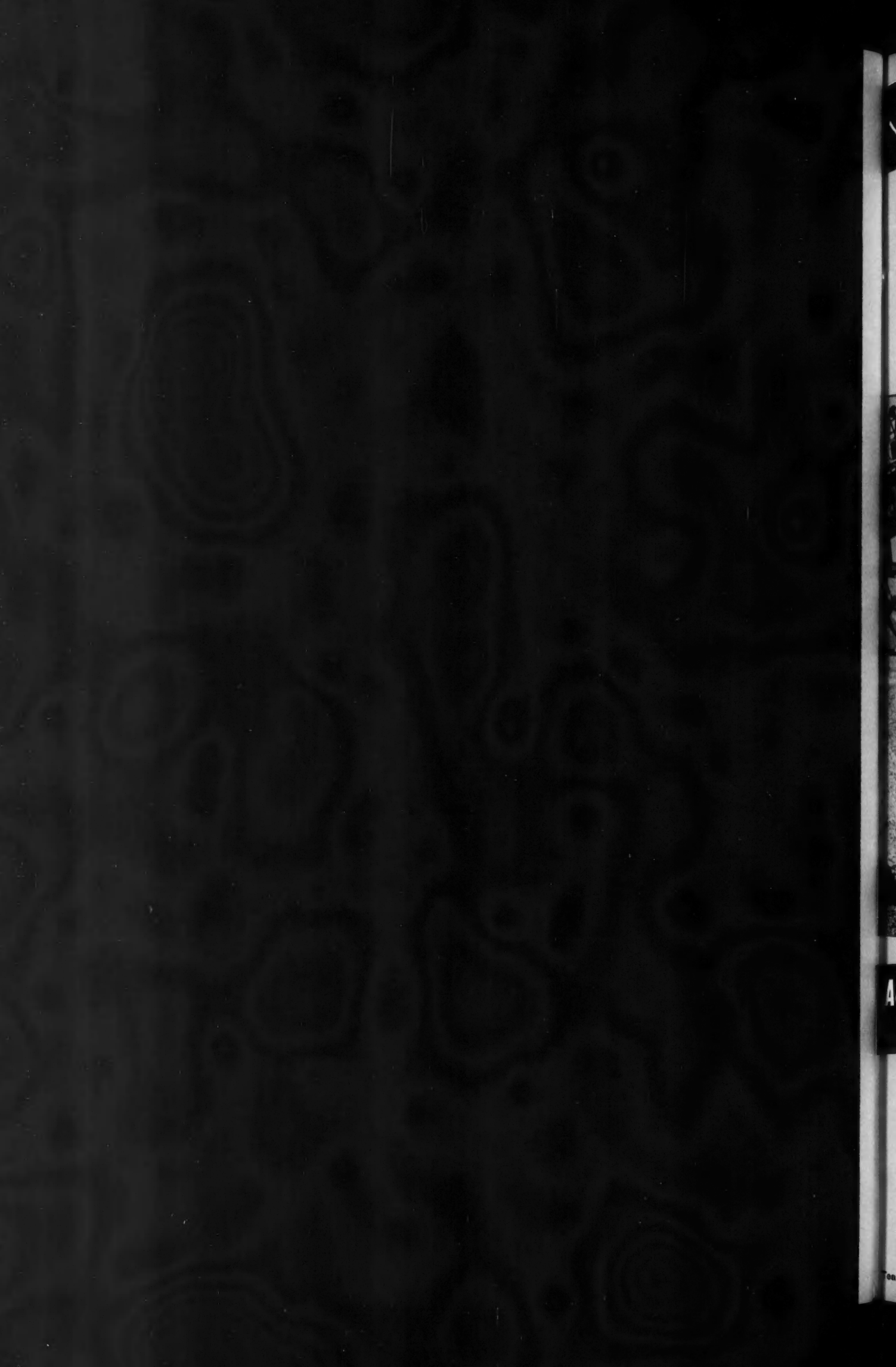
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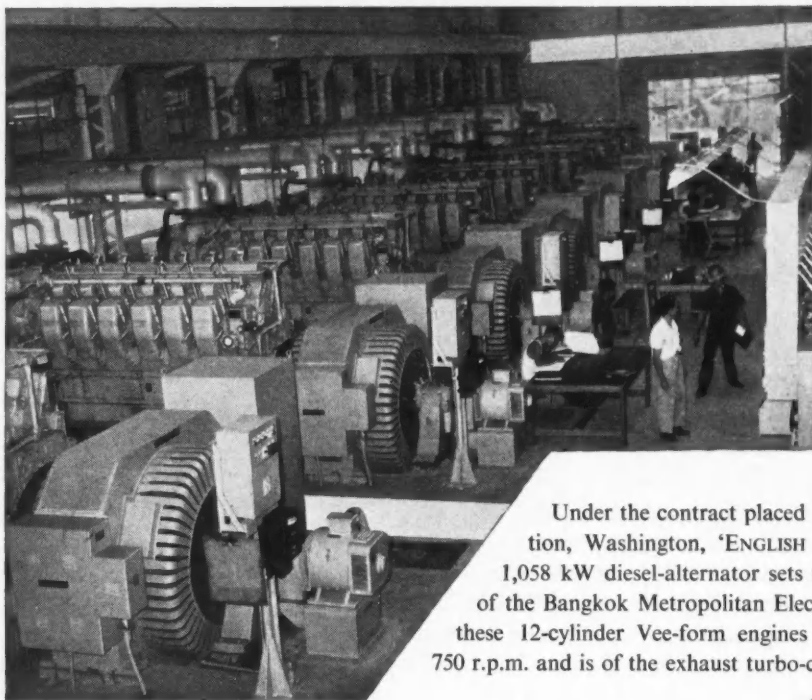


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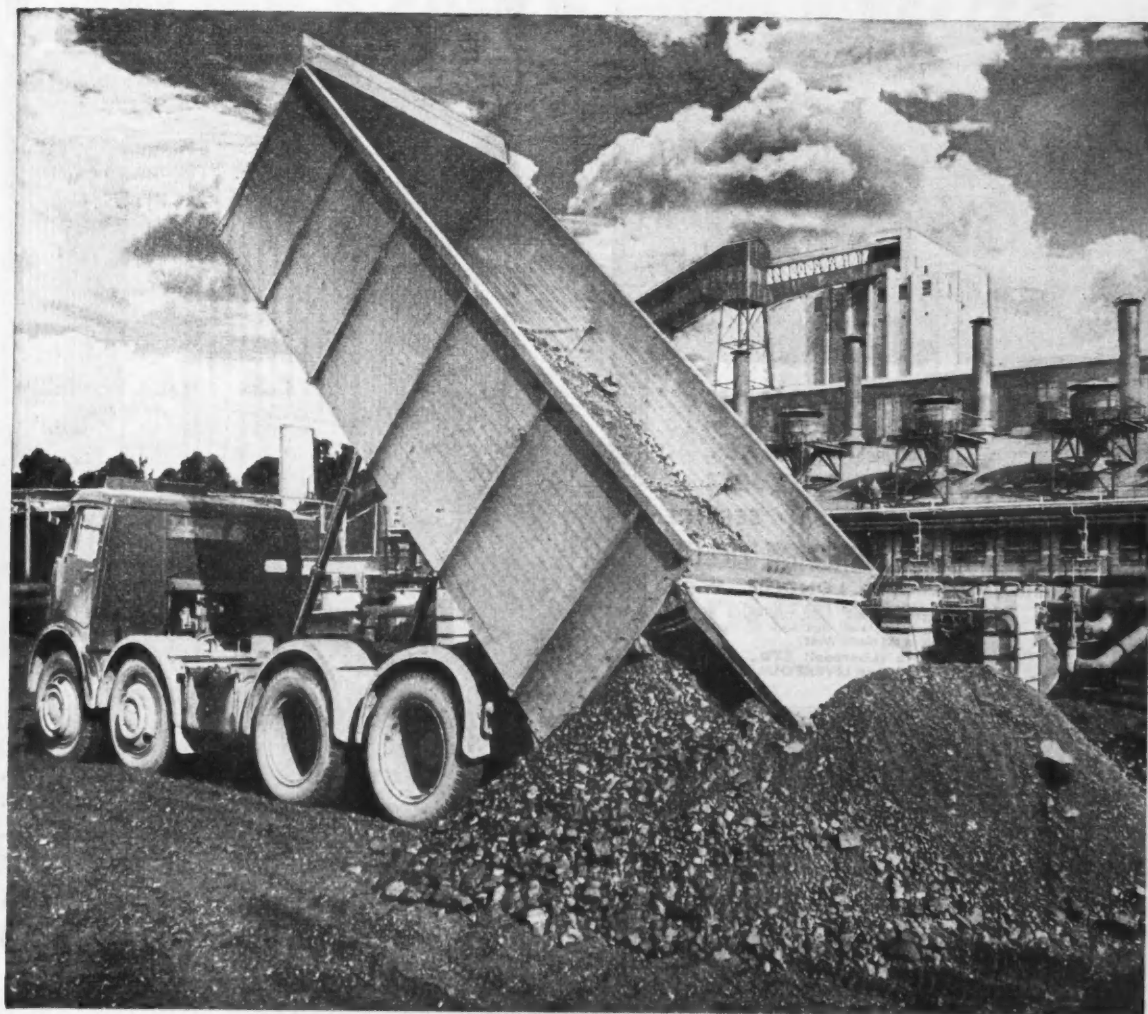
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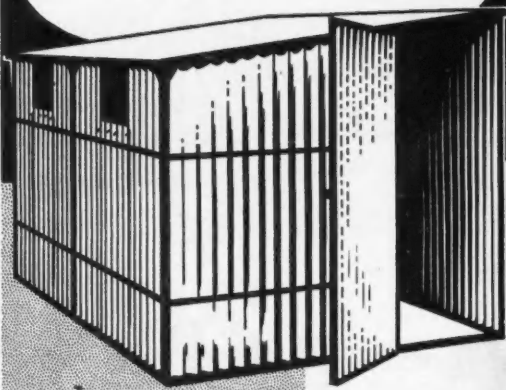


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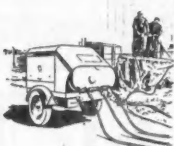
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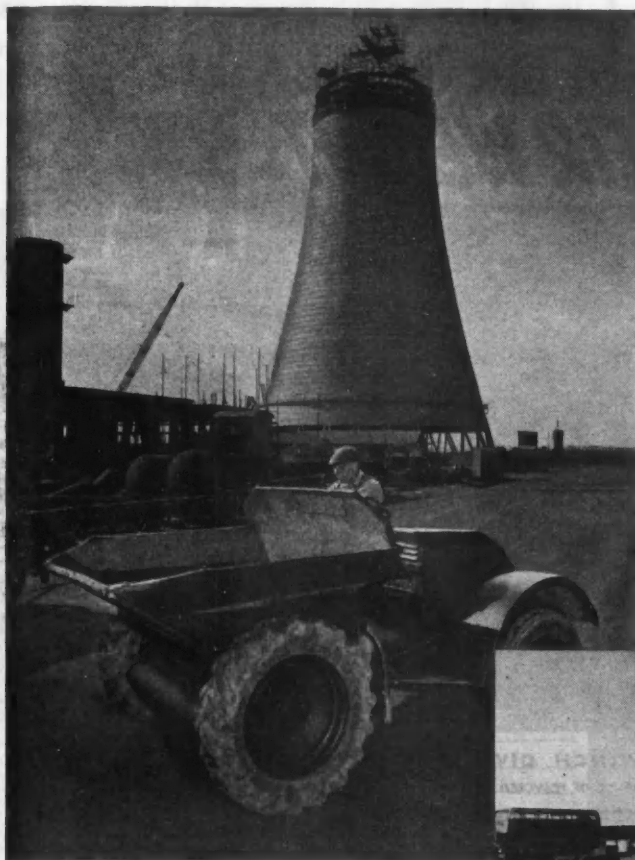


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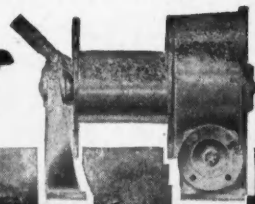


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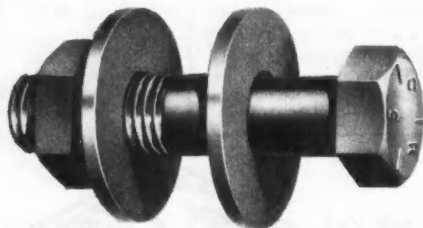


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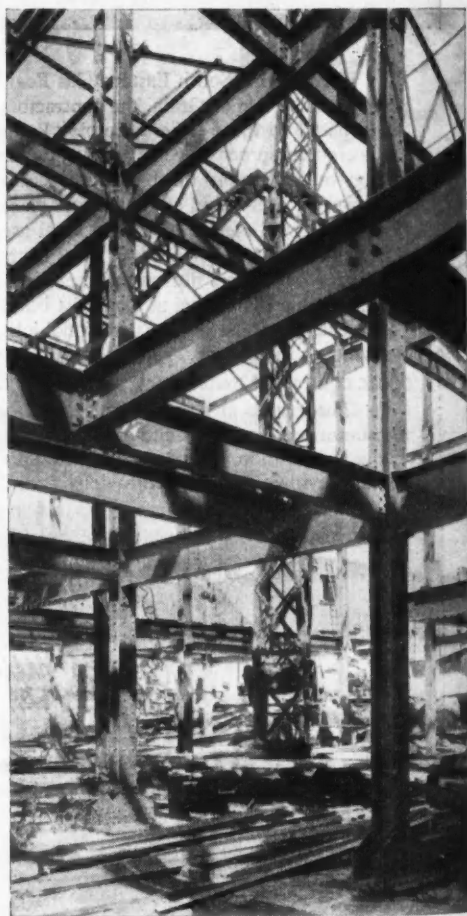
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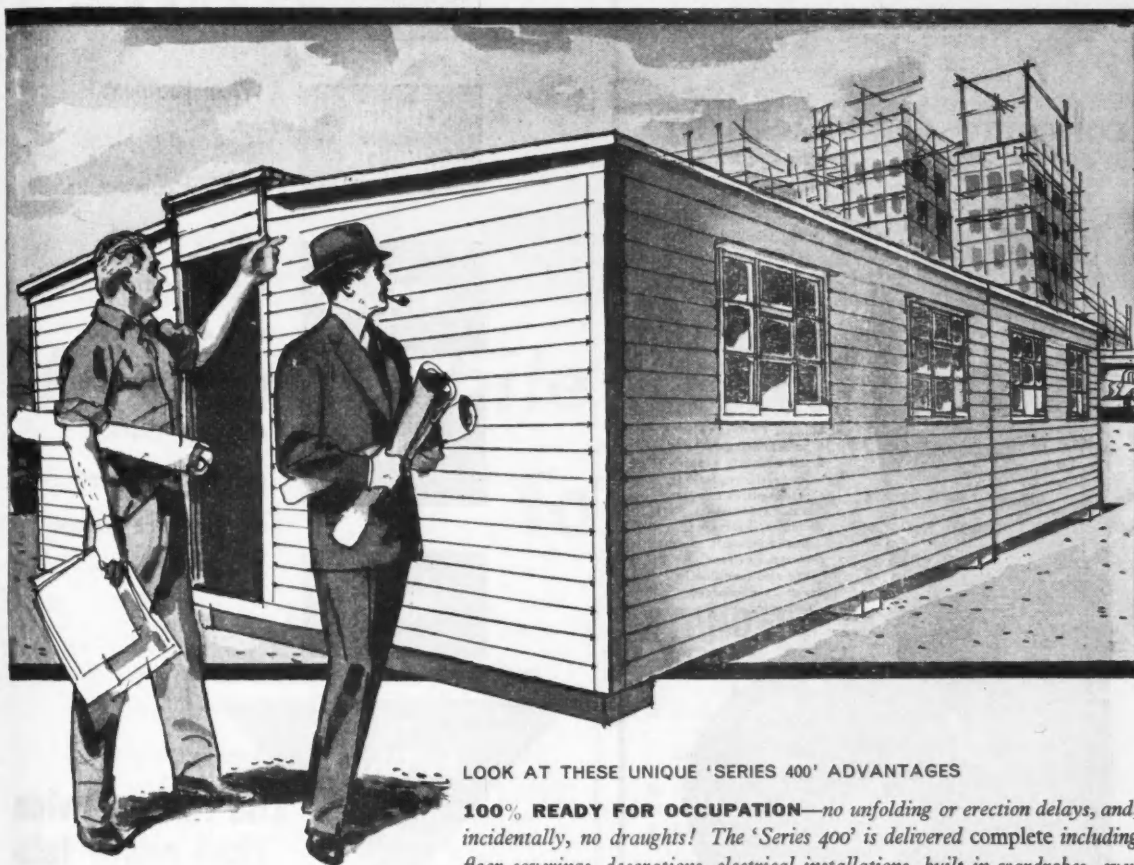
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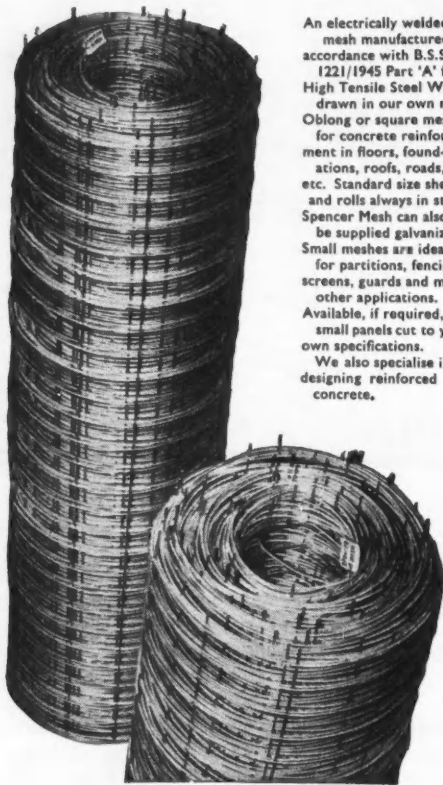
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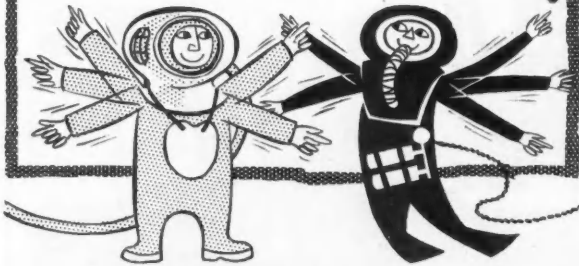
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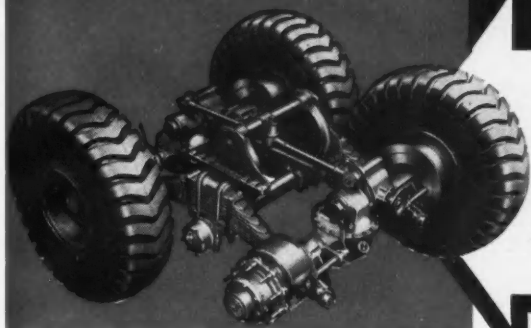
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The tough, powerful, economical 10 cu. yd. A.E.C. "Dumptruk" does far more work in less time and gives a lower cost per yard moved than any other comparable dump truck on the market today. Powered by the field-proved 150 b.h.p. diesel engine with a high torque output driving through a specially developed constant mesh gearbox, the A.E.C. "Dumptruk" has the stamina to meet the most gruelling conditions. With double acting rams it reaches a 70° tip in 10 secs, with power return.



10 Cubic yard

DUMPTRUK

Designed, powered and built by

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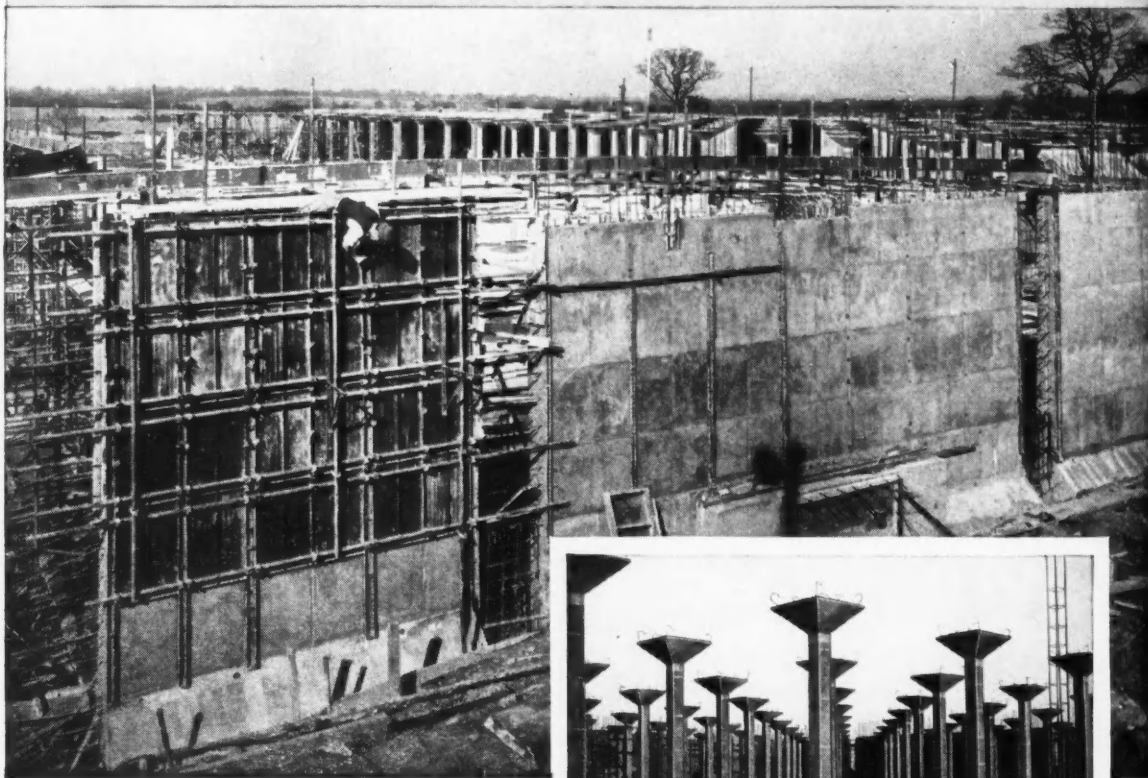
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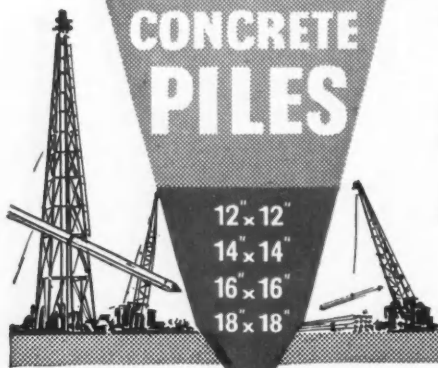
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35 sec	£374	£308	£374	£40.10.0	10%	1/5½d
200 sec	£440	£374	£440	£40.10.0	25%	1/2d
3,000 sec	£455	£395	£455	£40.10.0	40%	1/-

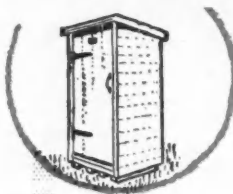
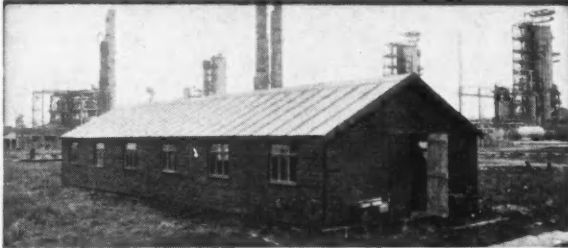
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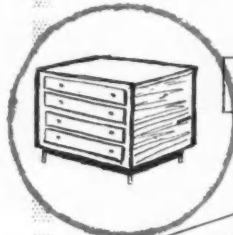
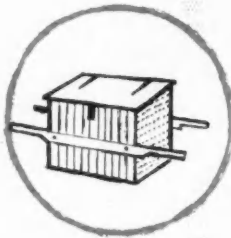
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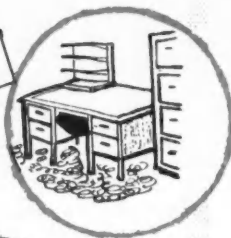
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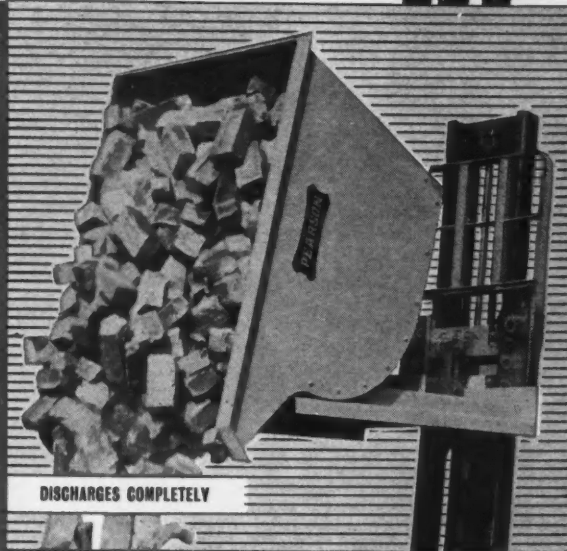
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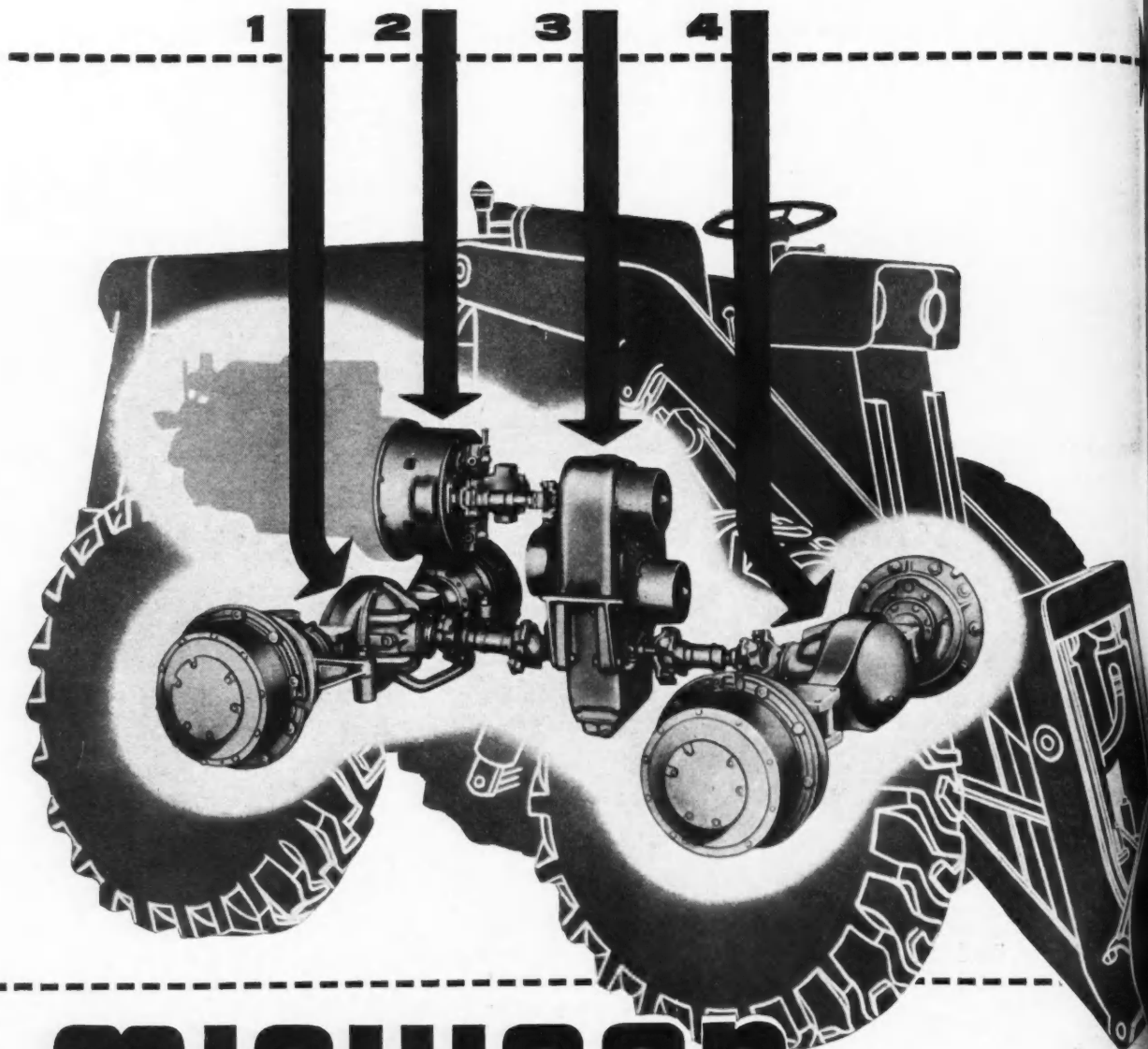
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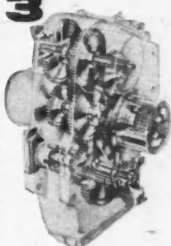


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Built to withstand heavy shock loadings—positive power steering is through twin hydraulic cylinders.

Driving power is delivered by the axle shaft to the sun gear in the planetary hub assembly through a constant velocity universal joint.

3



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This exclusive Michigan power shift transmission will give you faster cycles and greater production. Forward-Reverse and high-low levers on the steering column give fingertip control of hydraulic valves built into the transmission, and make any shift possible while moving in either direction.

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TORQUE CONVERTER.

The Michigan Torque Converter eliminates the weakest link in a conventional power train—the engine clutch. Digging into tough material, the torque converter supplies a steady flow of increasing power; engine torque is multiplied 300 per cent. with no punishing 'shock' action on drive shafts or gears.

4



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Built to Take it!

The unique transmission system ensures that torque build up in the converter automatically matches the draw-bar requirements. Built to take it, the Michigan Power Train delivers maximum useable horsepower over the entire work range. Designed and produced by *Michigan for Michigans*—since its first introduction the power train has not required a single major design change . . . clear proof the unit was 'right' from the start.

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Supertractor Shovel



175A
Tractor Shovel



125A
Tractor Shovel



85A
Tractor Shovel



75A
Tractor Shovel



55A
Tractor Shovel



175PH
Pipe Handler

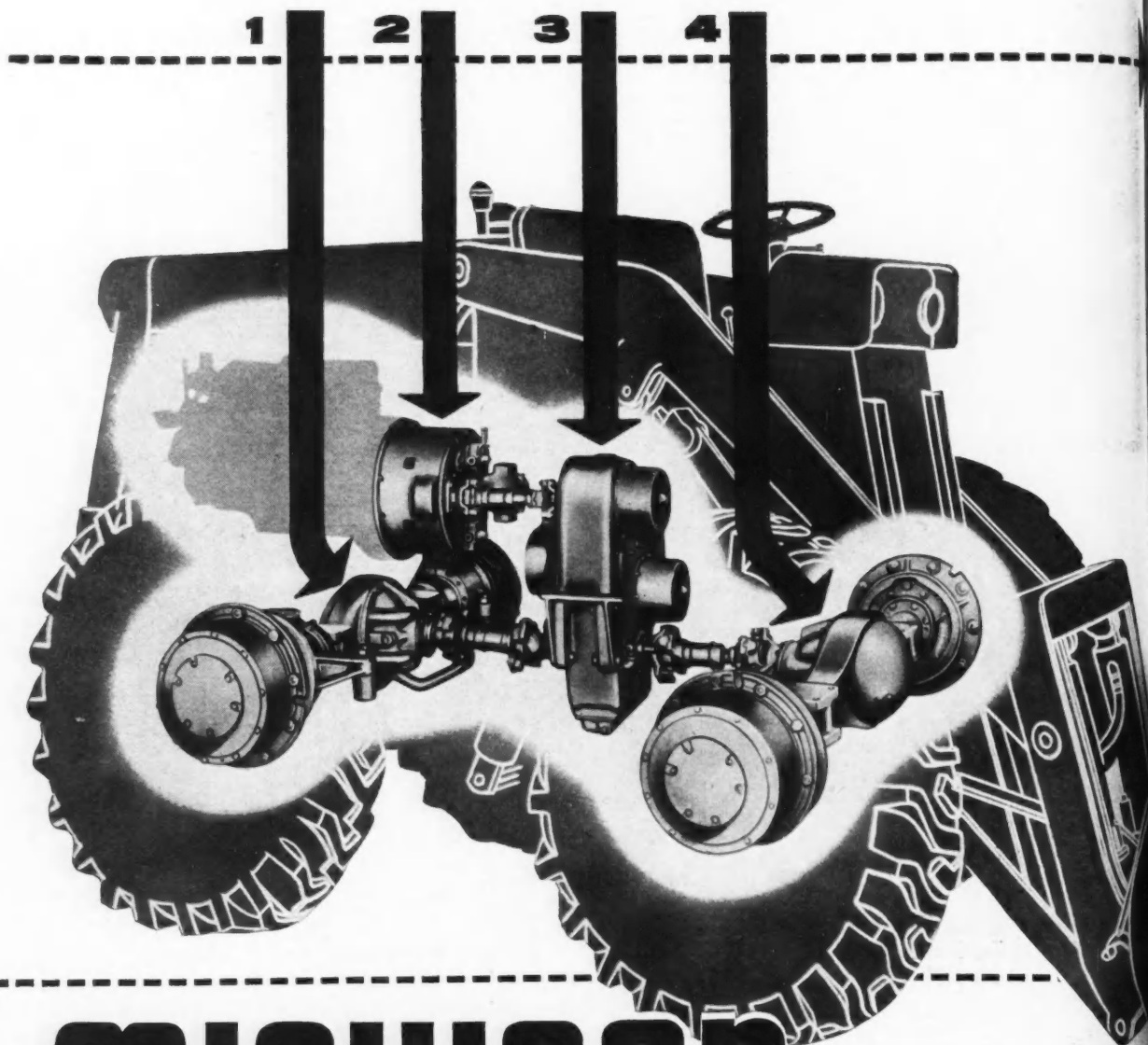


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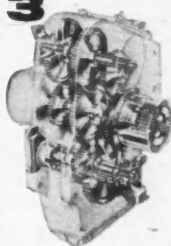


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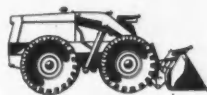
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275A
Supertractor Shovel



175A
Tractor Shovel



125A
Tractor Shovel



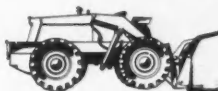
85A
Tractor Shovel



75A
Tractor Shovel



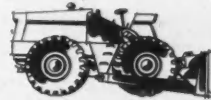
55A
Tractor Shovel



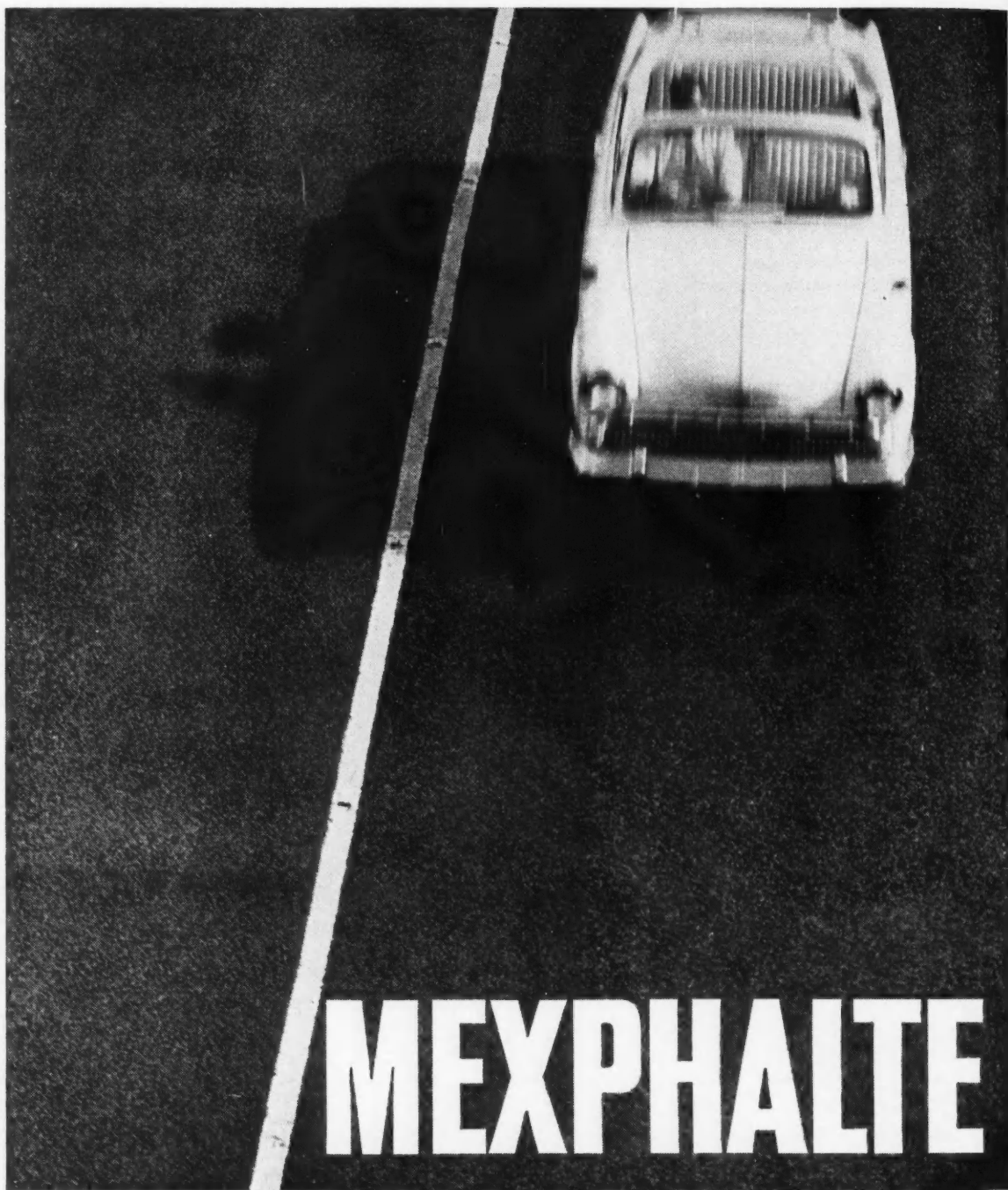
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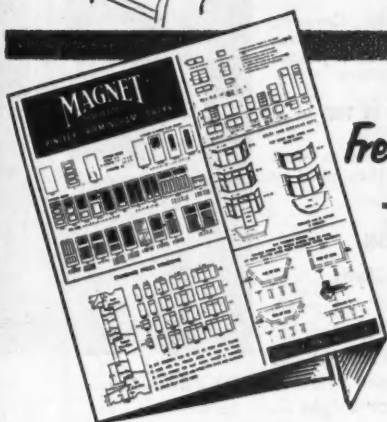


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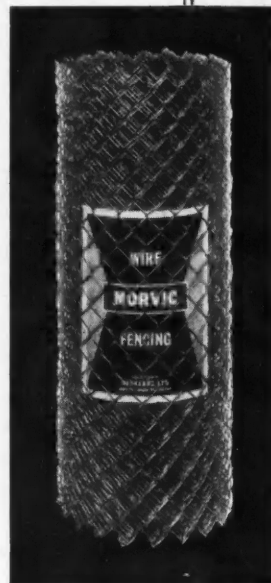
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KENT

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HARTSHOLME GRAVEL AND SAND CO., LTD., Hartsholme Woods, Doddington Road, Lincs. Sole selling agents: Hartsholme Sales, Ltd., 17 West Parade, Lincoln. (Tel.: Lincoln 23391.)

HOVERINGHAM GRAVEL CO., Hoveringham, Nottingham. (Tel.: Loughdam 3171—15 lines.) (For details, see Nottinghamshire.)

PETERBOROUGH QUARRIES, LTD., Sandylands, Mablethorpe, Peterborough. (Tel.: Market Deeping 2355—3 lines.) Quarry at Ropsley, all grades of hardcore and broken stone. (See also Northants.)

POLLARD, G., AND SON (TALLINGTON), LTD., Walk House, Loughfo, Peterborough. Pits at Tallington, near Stamford, Lincs. (Tel.: Market Deeping 2140.) All grades washed sand and aggregates. For "supercrete" ready mixed concrete, phone Market Deeping 3132.

TRENTFORD GRAVELS, LTD., Head Office: Deansgrove, Grimsby. (Tel.: Grimsby 5354.) Washed and graded gravel and sand, roadstone and slag, asphalt, ashes, etc. Pits and quarries throughout the county.

LONDON

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: Norwood Hill 115.) (For det., see Leics.)

COX, H., AND SONS, LTD., 33 Southampton Way, Camberwell, S.E.5. (Tel.: Rodney 2215—3 lines.)

CROFT GRANITE BRICK AND CONCRETE CO., LTD., 128-136 High Street, Edgware, Middlesex. (Tel.: Edgware 0076/7 and 1246.) "Kubitzed" granite aggregate to B.S.S., tared and bituminous macadam, cold asphalt, "Croftmatite" Wet Mix, filter media, concrete products.

DANGERFIELD, F. J., AND CO., LTD., 261A Finchley Road, N.W.3. (Tel.: HAMstead 8044-8.) Granite limestone or slate coated gravel, all sizes and pitching, granite kerb and setts, felspar quartz and other minerals by road or rail, or ex London stock.

DORSET LIMESTONES, LTD., Bumpers Lane, Easton, Portland, Dorset. (Tel.: Portland 2207/8.) (For details, see Dorset.)

DRINKWATER, W. W. (WILLESDEN), LTD., Dudden Hill Lane, Willesden, W.10. (Tel.: GLAdstone 5400/5.) Pits: Rush Green, Denham, Bucks. (Tel.: Denham 2241/2/3.) Also Staines Road, Hounslow Heath, Middlesex. (Tel.: Hounslow 6222/3.)

GABRIEL, C., LTD., Palmers Lane, Enfield, Middx. (Tel.: HOWard 4351/2/3.) Washed aggregates and building sand. Pits at Enfield and Hertford.

HALL AND CO., LTD., Chantry House, Eccleston Street, S.W.1. (Tel.: Sloane 7122), and at East Dulwich, Finsbury Park and Wandsworth. All sizes and gradings, concrete, plastering and building sand.

KEEN, W. J., AND SONS, 18 Granville Road, Epping, Essex. (Tel.: Epping 2520.) All sands, ballast, shingle and hardcore supplied.

LONDON BALLAST CO., LTD., Paddington 5064. 55A Porchester Terrace North, Paddington, W.2.

READ, P. T., LTD., Gales Gardens, Bethnal Green, E.2. (Tel.: Shoreditch 9128/9.) All sands, ballast and shingles supplied and delivered; also ready mixed concrete. Pits: Fairlop Airfield, Forest Road, Ilford, Essex. (Tel.: Hainault 6111/2/3.)

ROADS RECONSTRUCTION (1934), LTD., Stockley Lane, West Ham, Essex. (Tel.: West Ham 164.) Pits at Drayton 3041. All sizes broken limestone, dry and coated to British Standards.

MERIONETHSHIRE

SALOP SAND AND GRAVEL SUPPLY CO., Admaston, Wellington (Tel. 961.) Salop.

MIDDLESEX

CROSS, GEO. C., AND CO., LTD., Ironbridge, Uxbridge Road, Southall. (Tel.: Southall 2264/5/6.) Sand, ballast, shingle, hardcore, ashes, etc.

DRINKWATER, W. W. (WILLESDEN), LTD., Staines Rd., Hounslow Hth., Middx. (Hounslow 6222/3.)

GABRIEL, C., LTD., Palmers Lane, Enfield, Middx. (Tel.: HOWard 4351/2/3.) Washed aggregates and building sand. Pits at Enfield and Hertford.

GRUNDON, S., 79 Harrington Road, Hillingdon, Middlesex. (Tel.: Uxbridge 4156.) Sand, ballast, shingle, hardcore, ashes, excavation and demolition.

HALL AND CO., LTD., Chantry House, Eccleston Street, S.W.1. (Tel.: Sloane 7122), and at East Dulwich, Finsbury Park and Wandsworth. All sizes and gradings, concrete, plastering and building sand.

LONDON BALLAST CO., LTD., Paddington 5064. 55A Porchester Terrace North, Paddington, W.2.

READ, P. T., LTD., Gales Gardens, Bethnal Green, E.2. (Tel.: Shoreditch 9128/9.) All sands, ballast and shingles supplied and delivered; also ready mixed concrete. Pits: Edmontone Gravel Pit, Montagu Road, N.9. (Tel.: Shoreditch 9128/9.) and Fairlop Airfield, Forest Road, Ilford. (Tel.: Hainault 6111/2/3.)

STUART MACEY, LTD., Gordon Road, High Wycombe. (Tel.: High Wycombe 2591/2.)

THAMES SAND AND GRAVEL CO., LTD., Fordridge Road, Shepperton. (Tel.: Watlington-Thames 23616.) Concrete aggregates, concrete, plastering and building sand.

WRAYSBURY SAND AND GRAVEL CO., LTD., Pits at Wraybury. (Tel.: Wraybury 164.) Gravel aggregates, concrete, plastering and building sand.

CONTRACTORS' GUIDE TO AGGREGATES

MID-WALES

BENGRY AND SONS, LTD., Longmoor, Kingsland, Leominster, Herefordshire. (Tel.: Kingsland 301/4.) (See details under Herefordshire.)

HARPER AND THOMAS, LTD., Bayston Hill Quarry, Shrewsbury. (See Shropshire for details.)

NASH ROCKS STONE AND LIME CO., LTD., Presteigne, Radnor. (Tel.: Presteigne 352.) (See Herefordshire for details.)

OLD RADNOR TRADING CO., LTD., Quarries in Radnorshire. (Tel.: Kingston 11.) (See Herefordshire.)

SALOP SAND AND GRAVEL SUPPLY CO., Admaston, Wellington (Tel. 961), Salop.

TERN HILL SAND AND GRAVEL CO., LTD., Alimington Quarries, near Market Drayton, Staffs. (Tel.: Hales 261/2/3.) (See Staffs. for details.)

MONMOUTHSHIRE

IN-SITU CONCRETE, LTD., Victoria Works, Ebbw Vale (Tel. 3032), and Phoenix Works, Cardiff (Cardiff 63311), for limestone and slag aggregates, ready-mixed concrete, tarmacadam, media, filling, etc., kerbs and pavings.

MONMOUTHSHIRE ASSOCIATED QUARRIES, LTD., Head Office: 36 Chepstow Road, Newport, Mon. (Tel.: Newport 58311/2.) Suppliers of all grades of concrete aggregates, road metal, pitching stone, tarmacadam and bituminous macadam in limestone, dolomite and blue pennant stone. Quarries throughout the county.

WHITECLIFF QUARRIES AND BRICKWORKS, LTD., Coleford, Glos. (Tel. 3158/9.) (See Gloucestershire.)

MONTGOMERYSHIRE

HARPER AND THOMAS, LTD., Bayston Hill Quarry, Shrewsbury. (See Shropshire for details.)

NASH ROCKS STONE AND LIME CO., LTD., Presteigne, Radnor. (Tel.: Presteigne 352.) (See Herefordshire for details.)

SALOP SAND AND GRAVEL SUPPLY CO., Admaston, Wellington (Tel. 961), Salop.

NORFOLK

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: Norwood Hill 115.) (For details, see Leics.)

FRANKHAM QUARRIES, LTD., The Brooks, Sutton, Ely, Cambs. (Tel.: Sutton 391/3.) Washed sand and gravel. Pitt: Feltham.

JOHNSON, P. C. H., LTD., Station Road, Terrington, St. Clement, near King's Lynn. (Tel.: Terrington St. Clement 248.) Washed and screened gravel, roadstone, washed sharp and fine sands.

SMETTERTON STONE QUARRIES, LTD., Pix Farm Lane, Hemel Hempstead, Herts. (Tel.: Berkhamstead 1208/9.) Pits at Snetterton. Concrete aggregates, building sand.

THORPE GRAY, LTD., Harvey Lane, Norwich. (Tel.: Norwich 332434.) Washed and graded aggregates, stone and gravel delivered to all parts of Norfolk and Suffolk.

NORTHAMPTONSHIRE

AMEY'S AGGREGATES, LTD., Lower Wootton, Boars Hill, Oxford. (Tel.: Oxford 35421—10 lines.) Pits at Dry Sandford, near Abingdon, Sutton Courtenay, near Abingdon. (Tel.: Sutton Courtenay 275.) Theale, near Reading (Tel. 358.) Dorchester, Oxon. (Tel.: Clifton Hampden 236.) Billing, Northampton (Tel. Cogenhoe 464) for washed and graded aggregates to B.S.S.

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: Norwood Hill 115.) (For details, see Leics.)

BICESTER STONE CO., LTD., Stratton Audley, Leicestershire. (Tel.: Stratton Audley 238.) Manufacturers and suppliers of all grades limestone tarmacadam, dry, pitching stone, hardcore, etc.

BILLING GRAVEL CO., LTD., Station Road, Billing, Northampton. (Tel.: Cogenhoe 219.) London Office: 23 Berkeley Square, W.1. (Tel.: Mayfair 6341.)

BRAYBROOK, L. W., LTD., Newton Road, Higham Ferrers, Northants. (Tel.: Rushden 3344 and 3345.) All grades of washed and graded aggregates to B.S.S., building sand, hardcore.

DOW-MAC (PRODUCTS), LTD., Tallington, Stamford. All grades of washed sand and gravel. (Tel.: Market Deeping 2301.)

DUSTON STONE QUARRIES, LTD., New Duston, Northampton. (Tel.: Brixworth 278 and 298; Duston 505.) Producers of building and walling stone roadstone, hardcore, broken stone, ashes, sand, gravel and hoggins. Immediate delivery throughout Northamptonshire.

FERRERS AND AGGREGATES, LTD., Northampton Road Quarries, Rushden, Northants. (Tel.: Rushden 2354/5.) Largest producers in the county of all grades of high-quality concrete aggregate to B.S.S. Deliveries throughout Northamptonshire and adjoining counties.

GIBBONS, F. B., AND SONS, LTD., Welby House, Market Deeping, Peterborough. (Tel.: Market Deeping 3321/2353.) (See Lincolnshire for details.)

HOVERINGHAM GRAVEL CO., Hoveringham, Nottingham. (Tel.: Lowham 3171—15 lines.) (For details, see Nottinghamshire.)

KETTON STONE CO. (Prop. Andrew's Garage), Ketton, near Stamford. (Tel.: Ketton 206.) Hardcore, roadstone, crushed stone, top soil, silica clay. Quarries at Ketton.

MACKANESS, A. J., LTD., Ransome Road, Northampton. (Tel.: Northampton 589.) Producers of all grades of washed aggregates. Building sand. Mixmortar (lime/sand mortar). Prompt deliveries.

NENE BARGE AND LIGHTER CO., LTD., Market Chambers, Peterborough (Tel. 5534/5), and Ship Quarries, Wansford, near Peterborough (Tel.: Wansford 384/5). Roadstone, hardcore, broken stone, ballast, ashes, silica clay and sand.

NEWARK (PETERBOROUGH) SAND AND GRAVEL, LTD., 127 Eastfield Road, Peterborough. (Tel.: Peterborough 2091.) All grades washed and screened gravel and sand.

PETERBOROUGH QUARRIES, LTD., Sandylands, Maxey, Peterborough. (Tel.: Market Deeping 2355—3 lines.) Eight quarries supplying all grades of hardcore and broken stone. Also Wetmix at Yarewell, Wansford. All grades gravel and sand at Maxey.

POLLARD, C., AND SON (TALLINGTON), LTD., Walk House, Langtoft, Peterborough. (Tel.: Market Deeping 2140.) (See Lincolnshire for details.)

WELFORD GRAVEL, LTD., Head Office: Goldington, Bedford. (Tel.: 4587/8/9.) Largest producers of all grades of washed aggregates in Northamptonshire and Bedfordshire. Regular deliveries anywhere. Local office and pits: Forty Ford. (Tel.: Welford 256.)

NORTH WALES

CAWOOD, WHARTON AND CO., LTD., Platyl Gwyn Quarry, Llanarmon, near Mold. (Tel.: Llanarmon-y-nial 27.) Crushed limestone and tarred macadam, all grades.

CHESHIRE AND NORTH WALES TARRED MACADAM CO., LTD., Llanarmon, near Mold. (Tel.: Llanarmon-y-nial 43.) Hard, broken limestone, dry, washed, all grades. Inquiries to Registered Office—Market Chambers, Tower Square, Tunstall, Stoke-on-Trent. (Tel.: Stoke-on-Trent 88094.)

ENSTON BROS., Llwyn Isaf Quarry, Clynog Fawr, Caernarvon. (Tel.: Clynog Fawr 297/8.) All sizes crushed, washed natural sand and gravel. Highest quality. Precast concrete products, ex our Griffiths Crossways, Caernarvon. (Tel.: Caernarvon 2535/6.) Crushed granite ex our quarry, Pengwern and Gwydyr Quarries, Ltd., Trelewis, Llanrwst, Denbighshire. (Tel.: Llanrwst 38.)

PENMAENMAWR AND WELSH GRANITE CO., LTD., Quarries at Penmaenmawr (Tel. 2256/8), and at Trevor (Tel.: Cynsogfawr 223), Caernarvonshire. All sizes and gradings of crushed granite aggregate. Any quantity per day: immediate delivery ex stock. Coated granite also available.

RUTHIN AND DENBIGH TARMACADAM CO., LTD., Denbigh. (Tel.: Denbigh 75.) Lime, limestone, carbonate of lime, tarmacadam, etc. Also Market Place Chambers, West Bars, Chesterfield. (Tel.: 7130.) (For details, see Derbyshire.)

GLEN QUARRIES, LTD., Central Chambers, Wellgate, Rotherham. (Tel.: Rotherham 5223.) Crushed and graded stone, concrete sand, building sand, plastering sand and crushed gravel; could be collected ex quarry or delivered.

GUNTHORPE GRAVELS (1956), LTD. (Tel.: Nottingham 77357) and Works: Lowdham 2131. (An associate company of T. C. Campbell, Ltd.) All grades washed gravel and sand to B.S.S.

HOVERINGHAM GRAVEL CO., Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) Quarries at Hoveringham, Holme, Pierrepont Colwick, Bleasby and Newark. All grades of washed gravel and sand to any specification. Crushed quartzite for surface dressing of roads a speciality. Plant capacity 8,000 tons per day.

NEWARK CONCRETE CO., LTD., Grove Street, New Balderton, Newark, Notts. (Tel.: Newark 401.) All grades washed sand and aggregates.

SALISBURY AND WOOD, LTD., Matlock. (Tel.: 272/273.) (For details, see Derbyshire.)

NOTTINGHAMSHIRE

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: Norwood Hill 115.) (For details, see Leics.)

BURROWS BROTHERS (EXCAVATIONS), LTD., Market Place Chambers, West Bars, Chesterfield. (Tel.: 7130.) (For details, see Derbyshire.)

GLEN QUARRIES, LTD., Central Chambers, Wellgate, Rotherham. (Tel.: Rotherham 5223.) Crushed and graded stone, concrete sand, building sand, plastering sand and crushed gravel; could be collected ex quarry or delivered.

GUNTHORPE GRAVELS (1956), LTD. (Tel.: Nottingham 77357) and Works: Lowdham 2131. (An associate company of T. C. Campbell, Ltd.) All grades washed gravel and sand to B.S.S.

HOVERINGHAM GRAVEL CO., Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) Quarries at Hoveringham, Holme, Pierrepont Colwick, Bleasby and Newark. All grades of washed gravel and sand to any specification. Crushed quartzite for surface dressing of roads a speciality. Plant capacity 8,000 tons per day.

NEWARK CONCRETE CO., LTD., Grove Street, New Balderton, Newark, Notts. (Tel.: Newark 401.) All grades washed sand and aggregates.

SALISBURY AND WOOD, LTD., Matlock. (Tel.: 272/273.) (For details, see Derbyshire.)

OXFORDSHIRE

AMEY'S AGGREGATES, LTD., Lower Wootton, Boars Hill, Oxford. (Tel.: Oxford 35421—10 lines.) Pits at Dry Sandford, near Abingdon, Sutton Courtenay, near Abingdon. (Tel.: Sutton Courtenay 275.) Theale, near Reading (Tel. 358.) Dorchester, Oxon. (Tel.: Clifton Hampden 236.) Billing, Northampton (Tel. Cogenhoe 464) for washed and graded aggregates to B.S.S.

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: Norwood Hill 115.) (For details, see Leics.)

BENGRY AND SONS, LTD., Longmoor, Kingsland, Leominster, Herefordshire. (Tel.: Kingsland 301/4.) (See details under Herefordshire.)

BICESTER STONE CO., LTD., Stratton Audley, Leicestershire. (Tel.: Stratton Audley 238.) Manufacturers and suppliers of all grades limestone tarmacadam, dry, pitching stone, hardcore, etc.

CURTIS, J., AND SONS, LTD., Botley Works, Oxford. (Tel.: Oxford 41081/2/3.) Sand and all grades of washed aggregates. Pits at Radley, near Abingdon. (Tel.: Abingdon 441.)

DANGERFIELD, F. J., AND CO., LTD., 261A Finchley Road, London, N.W.3. (Tel.: HAMstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)

DIX, G. H., AND SON, LTD., Freeland, Oxon. (Tel.: Freeland 234.)

DUSTON STONE QUARRIES, LTD., New Duston, Northampton. (Tel.: Brixworth 278 and 298; Duston 505.) (See Northamptonshire.)

GRUNDON, S. (EWELEME), LTD., Eweleme, Oxon. (Tel.: Eweleme 20.) London Office (Tel.: Uxbridge 4156.) All grades washed aggregates. Path hoggins, broken stone, building sand.

HAINES, H. (WITNEY), LTD., Oxford Road, Witney. (Tel.: Witney 42.) All grades washed aggregates, hardcore, pitching and broken stone, Cotswold building and walling stone.

SNETTERTON STONE QUARRIES, LTD., Pix Farm Lane, Hemel Hempstead, Herts. (Tel.: Berkhamstead 1208/9.) Roadstone, Cotswold building and walling stone.

WRAYSBURY SAND AND GRAVEL CO., LTD., Station Road, Theale, Reading, Berks. (Tel.: Theale 373.)

RADNORSHIRE

BENGRY AND SONS, LTD., Longmoor, Kingsland, Leominster, Herefordshire. (Tel.: Kingsland 301/4.) (See details under Herefordshire.)

NASH ROCKS STONE AND LIME CO., LTD., Presteigne, Radnor. (Tel.: Presteigne 352.) (See Herefordshire for details.)

OLD RADNOR TRADING CO., LTD., Quarries in Radnorshire. (Tel.: Kingston 11.) (See Herefordshire.)

SALOP SAND AND GRAVEL SUPPLY CO., Admaston, Wellington (Tel. 961), Salop.

BULLIMORES SAND AND GRAVEL, LTD., South Witham, Grantham, Lincs. (Tel.: Thistleton 223.) Building sand, hardcore, ashes. All grades washed sand and aggregates.

GIBBONS, F. B., AND SONS, LTD., Welby House, Market Deeping, Peterborough. (Tel.: Market Deeping 3321/2353.) (See Lincolnshire for details.)

HOVERINGHAM GRAVEL CO., Hoveringham, Nottingham. (Tel.: Lowham 3171—15 lines.) (For details, see Nottinghamshire.)

RUTLAND

BULLIMORES SAND AND GRAVEL, LTD., South Witham, Grantham, Lincs. (Tel.: Thistleton 223.) Building sand, hardcore, ashes. All grades washed sand and aggregates.

GIBBONS, F. B., AND SONS, LTD., Welby House, Market Deeping, Peterborough. (Tel.: Market Deeping 3321/2353.) (See Lincolnshire for details.)

HOVERINGHAM GRAVEL CO., Hoveringham, Nottingham. (Tel.: Lowham 3171—15 lines.) (For details, see Nottinghamshire.)

RUTLAND

KETTON STONE CO. (Prop. Andrew's Garage), Ketton, near Stamford. (Tel.: Ketton 206.) Hardcore, roadstone, crushed stone, top soil, silica clay. Quarries at Ketton.

PETERBOROUGH QUARRIES, LTD., Sandylands, Maxey, Peterborough. (Tel.: Market Deeping 2355—3 lines.) Quarry at Greetham, all grades of broken stone and hardcore. (See also Northamptonshire.)

POLLARD, C., AND SON (TALLINGTON), LTD., Walk House, Langtoft, Peterborough. (Tel.: Market Deeping 2140.) (See Lincolnshire for details.)

SCOTLAND

KEIR AND CAWDER, LTD., Kirkintilloch Road, Bishopbriggs. (Tel.: Bishopbriggs 3200.) All grades washed sand and gravel aggregates.

SHROPSHIRE

BALLIDON QUARRIES, LTD., Ballidon, near Ashbourne, Derbyshire. (Tel.: Parwich 201 and 202.) Clean and graded dry limestone to B.S.S., all sizes, coated limestone to B.S. 802 and 1621 and wetmix: large output; reliable deliveries.

BENGRY AND SONS, LTD., Longmoor, Kingsland, Leominster, Herefordshire. (Tel.: Kingsland 301/4.) (See details under Herefordshire.)

DUNNING AND SON, LTD., Haughmond Quarry, near Shrewsbury. (Tel.: Upton Magna 286/7.) All grades of high-quality roadstone, concrete aggregates and coated macadam. All to B.S.S. Any tonnage available for immediate delivery.

HARPER AND THOMAS, LTD., Bayston Hill Quarry, Shrewsbury. (Tel.: Bayston Hill 351.) High quality roadstone, chippings, concrete aggregates, hardcore and coated macadam. Large tonnages always available.

NASH ROCKS STONE AND LIME CO., LTD., Presteigne, Radnor. (Tel.: Presteigne 352.) (See Herefordshire for details.)

OLD RADNOR TRADING CO., LTD., Kingston. (Tel.: 11.) (See Herefordshire.)

SALOP SAND AND GRAVEL SUPPLY CO., Admaston, Wellington (Tel. 961), Salop.

TERN HILL SAND AND GRAVEL CO., LTD., Alimington Quarries, near Market Drayton, Staffs. (Tel.: Hales 261/2/3.) (See Staffordshire for details.)

TRENTHAM GRAVEL CO., LTD., Lordsley Quarries, Willoughbridge, near Market Drayton, Salop. (Tel.: Pipe Gate 504/5.) All sizes crushed or natural washed gravel. Twice washed sharp concreting sand. Plastering sand. Plant capacity: 2,000 tons per day.

SOMERSET

ASHAM QUARRY CO., LTD., Chantry, Frome. (Tel.: Mynydd 351.) All sizes limestone block, broken and aggregates. Tarred and bituminous macadam to B.S. Ex quarry and delivered.

DANGERFIELD, F. J., AND CO., LTD., 261A Finchley Road, London, N.W.3. (Tel.: HAMstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)

GILSON, S. C., AND SONS, LTD., Holcombe, near Bath. (Tel.: Stratton-on-the-Fosse 243.)

HALL AND CO., LTD., Longmoor, Kingsland, Leominster, Herefordshire. (Tel.: Kingsland 301/4.) (See details under Herefordshire.)

ROADS RECONSTRUCTION (1934), LTD., Stoneleigh Road, Frome. (Tel.: Frome 1261.) All sizes broken limestone, dry and coated, to British Standards. Precast concrete products.

WALTON, HIGHER, JOHN, AND CO., LTD., Shepton Mallet, 256/7. All sizes basalt, coated basalt, concrete aggregates, filtering media, building blocks and slabs.

SOUTH SCOTLAND

ESK MANUFACTURING CO., LTD., Carlisle. (Tel.: Carlisle 2-4941.) (For details see Cumberland.)

SOUTH WALES

IN-SITU CONCRETE, LTD., Victoria Works, Ebbw Vale (Tel. 3032), and Phoenix Works, Cardiff (Cardiff 63311), for limestone and slag aggregates, ready-mixed concrete, tarmacadam, media, filling, etc., kerbs and pavings.

PENMAENMAWR AND WELSH GRANITE CO., LTD., 18 Quay Street, Cardiff. (Tel.: 20646/7.) Manufacturers and gradings of crushed granite aggregate from our Cardiff and Swansea Dock Depots. Dolomite aggregates from Ewenney Quarry, Bridgend. (Tel.: 1086/7.) Coated stone also available.

SESSIONS AND SONS, LTD., West Dock, Cardiff. Producers of coarse and fine aggregate, dredged and graded to British Standards. Branches Newport and Swansea. (Also Gloucester and Hereford.)

SOUTH WALES SAND AND GRAVEL CO., LTD., Head Office: P.O. Box 8, Beaufort Buildings, Swansea. (Tel.: Swansea 53071—5 lines.) Sand and gravel merchants, builders' merchants, Pennant Quarry owners, slag, hardcore, ashes, filling, graded clinker filter media. Depots: Cardiff, Newport, Barry, Port Talbot, Briton Ferry, Swansea, Llanelly.

STAFFORDSHIRE

BALLIDON QUARRIES, LTD., Ballidon, near Ashbourne, Derbyshire. (Tel.: Parwich 201 and 202.) Clean and graded dry limestone to B.S.S., all sizes, coated limestone to B.S. 802 and 1621 and wetmix: large output; reliable deliveries.

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: Norwood Hill 115.) (For details, see Leics.)

CROXDEAN GRAVEL, LTD., Cheshire, Stoke-on-Trent. (Tel.: Tean 393.) Manchester Office: Blackfriars 3766/7. Plant capacity, 2,000 tons per day.

DUNNING AND SON, LTD., Wood End Valley, Hednesford. (Tel.: Hednesford 302/325.) Washed sand and gravel. All to B.S.S. High-quality roadstone, concrete aggregates and coated macadam from our Haughmond Quarry, near Shrewsbury. (See Shropshire.)

GRAVEL HILL SAND QUARRIES, LTD., Tel.: Ashby House 79. (See Leicestershire for details.)

HARPER AND THOMAS, LTD., Bayston Hill Quarry, Shrewsbury. (See Shropshire for details.)

HILTON GRAVEL, LTD., Cheshire, Staffs. (Tel.: 241.) Also at Longton, Stoke-on-Trent. (Tel.: Longton 32196) and Stretton, Burton-on-Trent. (Tel.: Burton 6061.)

HULLAND GRAVEL CO., LTD., Cheshire, Stoke-on-Trent. (Tel.: Cheshire 2323 and 2119 and 2193.) Manchester Office: Hardy's Buildings, 3 Cateaton Street, Manchester, 3. (Tel.: Blackfriars 2277/8.)

CONTRACTORS' GUIDE TO AGGREGATES

STAFFORDSHIRE

RUGELEY GRAVEL CO., LTD., Rugeley Quarries, Rugeley, Staffs. (Tel.: Rugeley 251/2.) Entirely modern plant. Sand classifiers. Finest aggregates to B.S.S. Large output.

SALISBURY AND WOOD, LTD., Matlock. (Tel. 272/273.) (For details, see Derbyshire.)

SHIRE OAK GRAVELS, LTD., Lichfield Road, Walsall Wood, Staffs. Washed crushed gravel and washed sand. (Tel.: Brownhills 325/3.)

TERN HILL SAND AND GRAVEL CO., LTD., Alington Quarries, near Market Drayton, Staffs. (Tel.: Hales 261/2/3.) Pit sand, concrete sand, and all grades of washed crushed gravel. Hardcore, clinkers, ashes and hoggins.

TRENTHAM GRAVEL CO., LTD., Lordsley Quarries, Willoughbridge, near Market Drayton, Salop. (Tel.: Pipe Gate 304/5.) All sizes crushed or natural washed gravel. Twice washed sharp concreting sand. Plastering sand. Plant capacity 2,000 tons per day.

WINDMILL SAND AND GRAVEL QUARRIES, LTD., Cannock Road, Wolverhampton. (Tel. 31108.) Concrete aggregates, plastering, building and asphalt sand. All to B.S.S.

SUFFOLK

ALRESFORD SAND AND BALLAST CO., LTD., Alresford Creek, near Chichester, Essex. (Tel.: Wivenhoe 341.) Suffolk area pits at Bures and Stoke-by-Nayland. All grades washed aggregate sand, also hoggins.

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: Norwood Hill 115.) (For details, see Leics.)

DARBY'S SAND AND GRAVEL CO., LTD., Pit at Chippenham, Cambs. (See Cambs.)

DICKERSON, M., LTD., Teversham Corner, Newmarket Road, Cambridge. (Tel.: Cam. 56973/4.) (See Cambs.)

FRECKENHAM GRAVEL CO., LTD., Pit at Freckenham. (See Cambs.)

HALL AND CO., LTD., West End Road, Ipswich. (Tel.: Ipswich 55593/4.) Pits at Kesgrave and Homersfield, near Harleston. Gravel aggregates, concreting, plastering and building sand.

MACLAREN BROS. (KENNETT), LTD., Station Road, Kennett, Cambs. (Tel.: Kentford 333/4.) (See Cambs.)

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THE INDEX TO DISPLAYED ADVERTISEMENTS WILL BE FOUND ON PAGE 688

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	PAGE		PAGE		PAGE
A		B		C	
Accidents, Four-year Survey of Building	1123	Bridge Design, Highway Engineers		Commer Light Van and Passenger	
Aerial Photography, Volumetric Calculations by	593	Discuss Recent Developments in	849	Vehicle has Choice of Power Unit	205
Aggregates, Use of Manufactured Light-weight	1118	Bridge, Pahlavi Foundation, Iran	989	Compressor Demonstrations, Light-weight	1124
Agricultural Buildings, Planning Control of Large	1259	Bridge Renewal, London Transport, Replacement of Ray Street "Grid-Iron"	1255	Computers Speed Highway Design	727
A Lawyer Considers:		Bridges, Meeting on Prestressed Concrete	325, 459	Concrete, Cement Fondu/Alag	597
A Company's Residence for Tax Purposes—Surtax Directions	329	Bridges, Recent Developments in the Design of Highway	715	Concrete Exhibition, Prestressed, Influence of British Development	330
Liability to Children—Fluctuations in Holiday Credit Payments	585	Bristol-Birmingham Motorway, Contracts About to be Signed	1256	Construction: 1959, 1960 and Beyond, Industry Looks Ahead with Confidence	328
Negligence by the Architect: Employees' Tax Liability	1388	Bristol-Birmingham Motorway Contracts Announced	1529	Constructional Work, New Record Established for	1259
The "Architect's" Certificate—Duty to Employees	1656	Bristol, Housing Manager's Annual Report	201	Contractors Mechanical Plant Engineers, Midlands Branch Annual Dinner	720
The Issue of Payment for Extras	848	Britain's First National Homes Week	1530	Contractors' Plant, Test of, Comprehensive Arrangements at M.E.X.E.	1665
The National Insurance Act, 1959: Restrictive Practices Court—Restrictions Condemned	1113	British Motor Corporation Expansion Plans	590	Corby Civic Centre Design Winners	192
Work-in-Progress—Valuation for Tax Purposes: Responsibility for Specification	60	British Standards		Correspondence:	
Alcan's £150m. Hydro-electric Power Project	71	Asbestos-Cement Flue Pipes and Fittings, Heavy Quality	76	Alcan Hydro-electric Project	596
Amen House, City of London	1668	B.S. Handbook No. 4: Lifting Tackle Classification of Wood Preservatives and Their Methods of Application	864	"All-in" Service	722
Army Headquarters, Gibraltar	850	Dimensions of Hose Connections for Welding and Cutting Equipment	1283	Cranes for Buildings	593
Ascot Racecourse, Wimpey to Build Tattersalls Stand	589	Heaters for Tar and Bitumen (Mobile and Transportable)	1425	External Rendered Finishes	986
Asphalt Roads Association Annual Luncheon	1532	High Strength Friction Grip Bolts for Structural Engineering	76	Firm-price Tendering: Successful or Otherwise?	1661
		Hot Binder Distributors for Road Surface Dressing	76	Talking of Safety	1661
B		Road Danger Lamps	1283	Cost of Building, Reducing, L.M.B.A. President's Warning	339
Ballast Industry's Wages Agreement	584	Supplement No. 1 (1959) to B.S. 4A (1934) T-bars	202	Crane, N.C.K. Rapier 405 Excavator	77
Barracks, Reconstruction of Chelsea	63	Wood Blocks for Floors	76	Cranes, Steels Announce Three Coles	1543
Berkshire, Road Construction in	580	Brotherton By-pass Contract	1116	Cut Prices, L.M.B.A. President on "Suicidal Folly"	66
Beverstock Colliery Rail Link	1246	Builders' Benevolent Institution, Annual General Meeting	1121	D	
Bilston, Reconstruction of Joseph Sankey's Factory	583	Building Accidents, Four-year Survey of Building Acts and By-laws, London, Delegation of Functions	1123	Dagenham Construction Methods Used on Ford Assembly Building	61
Birmingham Accept £534,000 Direct Labour Housing Bid	466	Building by Helicopter, by D. W. Wood	1397	Dam, British Engineers Visit French Serre-Poncon	333
Birmingham and District Industrial Safety Group Dinner	861	Building Education, Scottish Conference on	727	Direct Labour an Expensive Luxury, says Liverpool Builders' President	463
Birmingham Bull Ring Development, Laing Scheme Recommended	466	Building Industry, Looking Ahead at the Building, N.F.B.T.E. President Suggests Four Ways to Better	1657	Direct Labour in Birmingham, Five Years' Development of the Building Department	337
Birmingham, First Lift Slab Contract in Great Britain	189	Building Research Station Digest No. 129	339	Diving Operations, Safety in, Proposed Special Regulations	1116
Birmingham Direct Labour in Birmingham Housing, Brick Shortage Threatens	341	Building Research Station Digest No. 130	65	Dodge Dumpers, First Two New	202
Birmingham Inner Ring Road, First Section Opened	1533	Building Research Station Digest No. 131	725	Downing Street Rebuilding Scheme in Civil Estimates, List of Proposed Works	1660
Birmingham-Preston Motorway, Tenders Invited	986	External Rendered Finishes	859	Drilling Rig Commissioned in the Persian Gulf	196
Birmingham Underpass, Tenders Soon for	856	Building Research Station Digest No. 132	1667	Drott B6K3, Side Tipping Shovel for	342
Blackwall Tunnel Duplication Contract	1524	Condensation in Dwellings	853	Dublin Library Design Competition	596
Blaw Knox Excavator for Quarry Working	865	Building Techniques, Post-war Progress in	856	Dumper with New Concrete-carrying Body, Muir-Hill	597
Blaw Knox PF-90 Paver, Improved	1426	Building Wages, Increases in	77	Dungeness Nuclear Power Station	75
Bonus Schemes, Application to Highway Works	987	Buildmaster Cranes, Ruston to Make		Durgapur Steelworks, India, First Stage Completed	335
Book Reviews:		C		E	
"Aluminium Busbar," by A. G. Thomas	340	Cambridge Bridge Reconstruction, Night Operations Solve Traffic Problem	1673	Eastern Federation of Building Trades Employers Annual Review	67
"CABMA Register, 1959-60"	64	Canada, Building Industry's Prospects in Canadians' Impressions of British Concrete Construction Techniques	990	Edinburgh Multi-storey Office Block, Contract for Holloways	722
"Curve Surveying," by I. B. M. Jenkins	64	Canadians Study U.K. Concrete Techniques	719	Engineering Testing Procedures, Standardisation in	1399
"Energy Principles in Applied Statistics," by T. M. Charlton	64	Capital Issues, Focus on	466	Esso Plan 70-mile Chemical Pipeline	997
"Estimating Structural Steel," by George A. Saunders	64	Car Parking in the Cities, B.R.F. Exhibition Showed How World is Tackling Problem	1246	Esso Plan Fawley-London Pipeline	68
"Examples of the Design of Reinforced Concrete Buildings," by Chas. E. Reynolds	586	Case Four-wheel-drive Shovels Available in U.K.	1662	Excavator, Priestman Lion, Prototype of	865
"F.B.I. Register of British Manufacturers—1960"	1123	Case, J. L. Form £1m. British Subsidiary Caterpillar Announce New D6 Tractor	1426	Excavator, Priestman Lion Prototype of	203
"Handbook of Heating, Ventilating and Air Conditioning"	340	Chelsea Barracks, Reconstruction of	999	Exposed Work, New Civil Engineering Rule	69
Kemp's Engineers Year-Book, 1960	1123	Chimney Stack Built in Record Time, by D. H. Walker	63	F	
"Painting from A to Z," by James Lawrence	64	Chipboard Factory Planned, £2m.	1659	Factory Building Studies No. 4	1280
"Route Surveys and Designs," by T. F. Hickerson	64	Cinema, Harlow Odeon May Set Pattern for Future	596	Factory Constructed over Existing Buildings	583
"Spons Architects' and Builders' Price Book, 1959-60"	64	Civil Engineering Hours and Wages Agreement	1395	Falmouth Graving Dock, Construction of	1117
Bradford Institute of Technology, Contract for Higgs and Hill	1110	Clean Air Act, Inquiry into Working of Clinker Supply Problem for Building Block Manufacturers	466	Federation of Building Block Manufacturers Annual Luncheon	1403
Brazilian Shipyard Contract	72	Code of Practice	1388	Finsbury, 18-storey Students' Block Approved	721
Brewery Building Features Two Varieties of Shell Concrete Roof	855	External Rendered Finishes	1403	Fire Precautions in High Buildings, L.C.C. Planning Committee Report	862
Bridge Consultants Appointed, Tay	68	Glazing and Fixing Glass for Buildings Storage and Collection of Refuse from Residential Buildings	1122	Fire Protection and Construction, First National Conference Held in London	1108
Bridge Design Critics, Ministry Engineer Attacks	325,				

F	PAGE	L	PAGE	R	PAGE
Flood Protection Scheme, Tenders for Part 3 of Great Ouse Scheme	192	London Transport's £9m. Metropolitan Project, Progress on	1539	Roads, A.3 Flyunder Incorporates Experimental Sub-surface Heating	983
Ford Assembly Building, Construction Methods	61	London-Yorkshire Motorway, Draft Scheme for Second Section	340	Roads: Municipal Engineers' Suggestions for Improvements	201
Forth Road Bridge, Tenders for Contract No. 3	1116	Looking Ahead at the Building Industry by Peter Trench	1657	Roads Programme, Problem of Traffic Congestion	595
Fulham, £14m. Block for North Thames Gas Board	191	M		Road, Work Starts on Reconstruction of Heads of Valley	580
G		Maidenhead Town Hall Contract, £357,850	466	R.A.F. Missile Bases, How They Were Constructed	1245
Gambia, Oyster Creek Bridge	73	Maintenance Bases for Civil Aircraft, Planning and Design of	587	S	
Garage, Multi-storey, Shoe Lane, London	588	Merseyside, £36m. Car Plants at	856	Safety Guide, N.F.B.T.E. Publish	192
Glasgow, 15-storey Building Project	341	Military Engineering Experimental Establishment, Arrangements for Testing Contractors' Plant	1665	Safety Regulations, Civil Engineering, Factories Act to be Extended 1112, Sanderson's London Showrooms and Offices	1670
Glasgow Office Block Plan, 20-storey	199	Missile Bases, How the R.A.F. were Constructed	1245	Scammell Gritters for Icy Motorways	981
Glass Research Centre, Pilkington's	457	Motorway Contracts Announced, Bristol-Birmingham	1529	Scotland, Winter Working in	1124
Goliath Crane Lifts 385 Tons at Hinckley Point	473	Motorway Design, Elevated, Cantilevered Structure Prestressed by Cables	190	Scottish Association of Paint Manufacturers	727
Grading Plant Installed at Leicestershire Quarry, Automatic	1427	Motorway Links, Midland, Three-mile Viaduct Over Railway	1423	Scottish Plant Owners Association's Annual Dinner	473
Grangemouth Design Competition Awards	1259	Motorways, Junction Design on	1111	Serre-Poncon Dam, France, British Engineers Visit	333
Grangemouth Docks Improvement, £1.7m. Scheme	1423	Myers' New Track Reconditioning Shop, Plant Managers' Visit	729	Sewerage Contamination of Beaches	192
Great Ouse Scheme, Tenders for Part 3	192	N		Sewer Repaired While in Operation, Berkshire	595
Gritters for Icy Motorways, Scammell	1124	N.C.K. Rapier 405 Excavator Crane	77	Sharpness Docks, Limpet Dam Used for Underwater Work at	582
H		National Contractors Group, J.C.C. Looks at its Activities	721	Shell Centre Site Dispute, Investigation Committee's Report	720
Hangars, Planning and Design to Suit Aircraft Trends	587	N.F.B.T.E. Annual General Meeting	714	Simmons Transporter for Nuclear Power Station Site	999
Harbour Reconstruction Works in West Indies	1281	N.F.B.T.E. Annual Report	581	Simple Sludge Pump	865
Harlow Odeon Cinema	1395	N.F.B.T.E. Publish Safety Guide	192	Skyway Hotel, London Airport	463
Heads of Valley Road, Wales, Work Starts on Reconstruction of	580	National Homes Week, Britain's First	1530	Snow Locust	1425
High Holborn, Extension to Pearl Assurance Building	201	National Homes Week, Plans for First	340	Somerset County Offices Design Award	1673
Highway Engineers, Formidable Task Faces	718	Nervi Design in Olympics Buildings	197	Southern Counties Federation of Building Trades Employers Annual Luncheon	718
Hinkley Point Nuclear Power Station, Civil Works Substantially Complete	712	Newcastle Town Hall, McAlpine's £2m. Contract	1255	Space Heaters, Mobile, Flame Contained by Patent Filter	863
Hinkley Point Nuclear Power Station, Goliath Crane Lifts 385 tons	473	Nigerian Shopping Centre, £1,850,000	196	Stafford By-pass, June Start on	723
Hobart Road Bridge, Work Starts on	1535	N.A.T.O. Headquarters Building Completed in Paris	195	Strand Palace Hotel, London, Preplanning and Prefabrication Speed Alterations	1257
Hook Road Underpass	983	Northern Ireland Factory, Special Foundations for	341	Strikes, Unofficial, Threaten National Economy, says Sir Halford Reddish	1121
Hoole, "The Piper" Licensed Premises	1671	Notts. County Surveyor's Annual Report	854	Structural Engineers Contribution in Atomic Field	593
Hough Payloaders to be Manufactured in Britain	803	Nuclear Power Group, Formation of	64	Sudan Mill, U.K. Consortium to Build	1282
House Building, Still Too Much Mediocre, says Minister	1660	Nuclear Power Station, Civil Works Substantially Complete at Hinckley Point	712	Sunderland and South Shields Water Co. Reservoir Contract	590
House, Terraced, on Three Floors	1669	Nuclear Power Station for Suffolk	723	Surface Dressing and Precoated Chippings	1394
Hull Transit Sheds Contract	1254	Nuclear Power Station, Progress at Hunterston	465	T	
Hunterston Nuclear Power Station, Progress at	465	Nuclear Power Station Tenders, Dungeness	75	Tack Coats: A Successful Application for Bitumen Emulsions	995
Hyde Park Road Improvement Contract	1524	O		Tarred Chippings, Use of in Lancashire Tattersalls Stand, Wimpey to Build	589
Hydro-electric Project, Hirfanli, Turkey	71	Olympics Buildings, Nervi Design in	197	Tattersalls Stand, Wimpey to Build	1110
Hymatic Introduce new Compressor	202	Opencast Cuts, "A Difficult Decision"	340	Tay Bridge Borings	68
I		Overseas Geological Surveys' Headquarters	67	Tay Bridge Consultants Appointed	856
Ideal Home Exhibition, American and Canadian Houses at	851	P		Tendering, Firm-price: Successful or Otherwise? Architects' Views on "Full Documentation" Plea	1525
I.C.I. Severnside Plants, Start Soon on India, First Stage of Durgapur Steelworks Completed	335	Paddington, Rebuilding of St. Mary's Hospital	192	Thames Flood Barrier Feasible	1250, 1391
Industrial Trends, F.B.I. Inquiry into	861	Paris, Nato Headquarters Building Completed	195	Theatre, Hexagonal to be Built at Chichester	857
Institute of Builders Annual Dinner	993	Parker Paver Demonstrated	864	"The Times" Offices Rebuilding, Demolition in Spring	1110
Institution of Municipal Engineers, Annual Dinner	1390	Park Lane Hotel Contract, Multi-storey Pension Scheme, Contracting Out of New Perkins' New Six 305 Diesel Engine	1664	Thwaites Side-discharge Dumper	1283
Institution of Municipal Engineers Biennial Spring School	1247	Petrol Station, Aluminium Canopy for Dover	75	Toronto Offices Completed Ahead of Schedule	860
Institution of Plant Engineers, Annual Dinner	1400	Pilkington's Glass Research Centre	457	Tower Crane, Otus Kassbohrer K.T. 7000	1125
Insurance, A Guide to Better, by M. F. Taylor	1253	Pingon P200 Tower Crane	1424	Tower Crane, Pingon P.200	1424
International TD-25 Tractor Introduced to World Market	203	Pipeline, Ezzo Plan 70-mile Chemical	866	Track Reconditioning Shop, Fred Myers Tractor, Caterpillar Announce New D.6	729
International Association for Shell Structures	340	Pipeline, Ezzo Plan Fawley-London	997	Tractor, International, TD-25 Introduced to World Markets	999
Iran, Pahlavi Foundation Bridge	989	Pipeline in the Persian Gulf, Construction of 25-mile	469	Tractors, Design of Crawler, Problems Encountered and Future Trends Discussed	1401
J		Pipelines, Nine-mile Jet Fuel will Serve London Airport	1119	Tractor Shovel, Allis-Chalmers Introduce New HD.6G	1541
Jamaica Housing, British Funds for	196	Planning Delays, Minister's Concern over Planning Engineer's Task Discussed at Building Estimators Meeting	1118	Tunnel Duplication Contract, Blackwall Turkey, £23m. British-built Hydro-electric Project	1524
Japanese Gas Works Contract, Britain Gets	334	Plant Engineers' Increasing Responsibilities	1400	Tyne Tunnel, Tenders this Year?	467
Johnson Dumper with Articulated Chassis	1425	Power Stations, Sites for Largest Coal-fired	1397	V	
Johnson Mud Pump Mark IV	1127	Preston College Extensions, £650,000	1532	Vauxhall Motors Merseyside Factory Planned	1110
L		Prestressed Concrete Bridges, Meeting on	325, 459	Vokes' New Compressed Air Filter	474
Land Shortage, East Anglian Builders' Concern at	67	Prestressed Concrete Development Group, Annual General Meeting	857	Volumetric Calculations by Aerial Photography	593
Latin-American Tour by British Architects	1115	Prestressed Concrete Exhibition, Influence of British Development	330	W	
Lift Slab Contract in Britain, First	189	Prestressing, Stranded Cables Used for New Fulham Building	191	Water Supply in Summer, Natural Reservoirs Augment London's	331
Living with the Motor Vehicle, Choice Facing Our Cities	991	Priestman Lion Excavator, Prototype of Productivity, Minister on Challenge facing Building Industry	203	Welsh College Design Allows for Possible Mining Subsidence	1251
Local Authority Expenditure, Easing of Restrictions on	1390	R		Wigan, Application of Bonus Schemes to Highway Works	987
London Airport, Nine-mile Jet Fuel Pipelines Will Serve	1119	Railway Line to Serve Notts. Colliery	1671	Windsor Reservoir, Precast Prestressed Wall Units Used on	1389
London Airport, Skyway Hotel	463	Railways, London Transport's £9m. Metropolitan Project, Progress on	1539	Work Study Engineers in Conference, Builders'	75
London Building Acts and By-laws, Delegation of Functions	62	Ready Mixed Concrete Production, Big Increase in	1118	Y	
London Building and Engineering Contractors Accident Prevention Group Annual Dinner	1398	Reservoir, Mowlem's £54m. Durham Contract	590	Yale Tractor Shovel	1127
L.C.C. School Improvements Programme, Cuts in	588	Reservoir, Precast Prestressed Wall Units Used on	1389	Ystrad Mynach College of Further Education, Glamorgan	1251
London Master Builders Association Annual General Meeting	471	Richborough, Office Block for Pfizer	1254		
L.M.B.A., Annual Luncheon, Minister on Training Youth for skilled Occupations	591	River Pollution, Important Changes in Law Advised	592		
London Transport Bridge Renewal, Replacement of Ray Street "Grid Iron"	1255	Road Improvement Contract, Hyde Park	1524		

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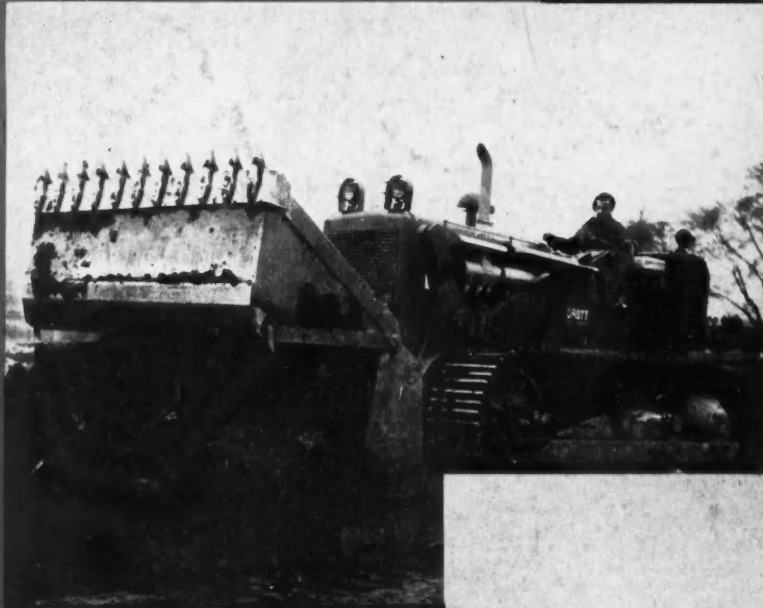
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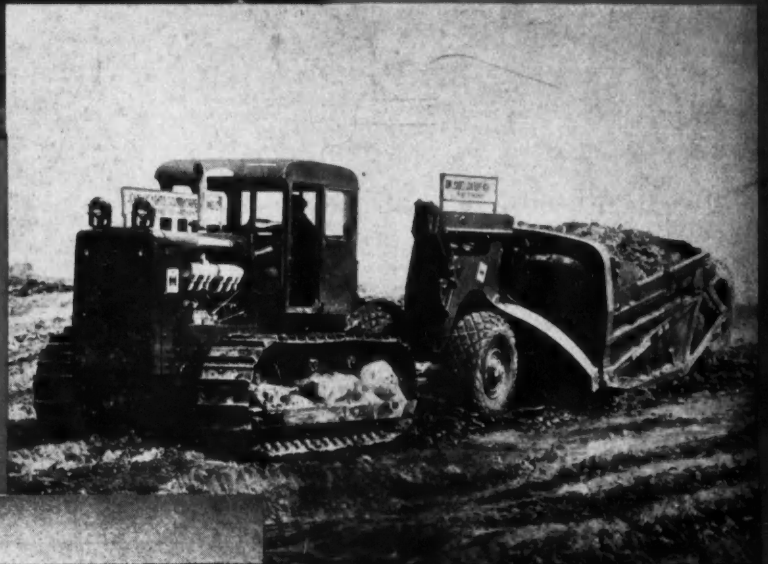
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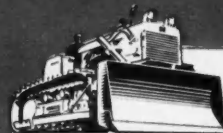


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